



Cinemix

OWNERS MANUAL

Cinemix Manual

version: 1.3

Introduction and Product Overview

1.0 The Chassis system - description

1.1 Cinemix chassis

2.0 Master section - description

- 2.1 Solo Section
- 2.2 Meters to main
- 2.3 CRM Section
- 2.4 DECODER/ENCODER Active
- 2.5 CRM control room monitor
- 2.6 Oscillator / talkback section
- 2.7 Talk back section
- 2.8 Dynamics section
- 2.9 Aux section
- 2.10 Studio 1/2 section
- 2.11 Metering
- 2.12 Master in/outputs
- 2.13 Recall/automation
- 2.14 Tape switch

2.0 FILM MASTER

- 2.15 Solo Section
- 2.16 Meters to main
- 2.17 CRM Section
- 2.18 DECODER/ENCODER Active
- 2.19 CRM control room monitor
- 2.20 Oscillator / talkback section
- 2.21 Talk back section
- 2.22 Dynamics section
- 2.23 Aux section
- 2.24 Studio 1/2 section
- 2.25 Metering
- 2.26 Master in/outputs
- 2.27 Recall/automation
- 2.28 Tape switch

3.0 "Dual-Path" mono module - description

- 3.1 Channel section
- 3.2 Equalizer section Chan path
- 3.3 Aux 1-4 section
- 3.4 Pan pot

- 3.5 Phase switch
- 3.6 Insert
- 3.7 Sel switch
- 3.8 SOLO
- 3.9 Mute function
- 3.10 Fader
- 3.11 CHAN/MIX status section
- 3.12 MIX path
- 3.13 LCRS pan-pot
- 3.14 CHAN/MIX path in/outputs

4.0 Dual Stereo return module

- 4.1 Input ssection
- 4.2 Equalizer sections
- 4.3 Aux send 1-4 section
- 4.4 Status section
- 4.5 Aux 5-10 section
- 4.6 Equalizer section
- 4.7 Balance pot
- 4.8 Status section B path
- 4.9 In/outputs

5.0 Patchbay - description

- 5.1 Patchbay points

6.0 Instructions for operation

- 6.1 The Tracking session
- 6.2 The Playback session
- 6.3 The Overdub session
- 6.4 The REMix session
- 6.5 MIDI or Virtual session
- 6.6 Surround mixing

7.0 Installation - electrical

- 7.1 Local Electrical Voltage
- 7.2 Electrical Wiring

8.0 Installation - audio

- 8.1 Interface with Power Amps
- 8.2 The Initial Hook-up
- 8.3 Shields & Grounds of Equipment

9.0 Troubleshooting and servicing

- 9.1 Troubleshooting
- 9.2 Removing a module
- 9.3 Patchbay - servicing

10.0 Connectors

- 10.1 Master section connectors
- 10.2 Patchbay connectors

11.0 Specifications

12.0 Signal flow master section

13.0 Signal flow input module

14.0 System signal flow Cinemix

15.0 Interfacing with external equipment

16.0 Interfacing with DS4E / SDU4

17.0 Interfacing with SEU4 / SDU4

18.0 Interfacing with JS-3000

19.0 Installation and alignment of the Control Room Monitor Matrix

19.1 Installation and alignment of the matrix module

20.0 Conformity safety

21.0 Product safety

Letter from the Prez

Dear Cinemix owner,

The Cinemix was created using the latest in computer aided design and assembling technology and incorporates the most advanced circuit components available which results in Cinemix being another D&R product unsurpassed in the electronics industry.

In D&R's quest to "raise the standard", Cinemix is designed and manufactured to the highest degree. We are confident that Cinemix will play the central roll in producing "state of the art" recordings for many years and wish you much success.

We value your suggestions and would appreciate you taking the time to complete and return the questionnaire included at the front of this manual (once you become familiar with your Cinemix).

We listen and learn from your comments and you can be assured that our research and development department will take your comments very serious.

With kind regards,

Duco de Rijk
President D&R Electronica Weesp b.v.



RAISING
THE
STANDARD

Cinemix Recording Console

The D&R Cinemix is a 24 buss, dual path in-line format recording and mixing console designed to take the central role in a recording/mixing facility.

With up to 30 projects storable, the wasted time between sessions is a thing of the past.

An essential part of Cinemix is his ARM (Advanced Routing Multiplex).

With ARM you can digitally route any input in Cinemix to a number of places and be able to recall all stored setups by a couple of key strokes. This feature alone saves valuable time between sessions.

A first in mixing console technology is Cinemix's surround master section with the ability to mixdown a 5.1 surround mix, fully automated.

Easy monitoring of all surround outputs is standard and automated Joysticks with Virtual Vision makes 360 degrees panning very easy to lay down in the final mix.

Completely modular, Cinemix can be configured precisely to suit your particular system requirements. A Cinemix standard is the internally wired patchbay on the right end and interfaces with all external equipment using 25 pin sub D connectors, and chassis mount XLR connectors.

To become completely familiar with your Cinemix and gain the maximum benefit from his use, we recommend that you read this manual thoroughly.

It will provide important information about all aspects of Cinemix including; installation, operation, and servicing.

Head Office / Factory

D&R Electronica Weesp B.V.

Rijkade 15B

1382 GS Weesp

The Netherlands

Tel: (-) 31 294 418 014

Fax: (-) 31 294 416 987

Website: <http://www.d-r.nl>

E-mail: info@d-r.nl

Cinemix's CHASSIS SYSTEM

1.0 Cinemix's Chassis

The Cinemix is available in two frame sizes; 32 and 48. The basic frame has one blank module located on the extreme left of the frame. The three blanks positioned right from the master section can be replaced by an optional Film Stems module. This is a module that returns 24 track machine outputs directly into the CRM summing busses for monitoring pre-recordings.

The blank on the far left side of the frame cannot be replaced with an input module as they conceal mechanical constructions and internal wiring.

Included with Cinemix's frame are; the master section with associated VU metering, patchbay, all internal cable harnessing, and rack mount power supply.

Frame 32

The frame 32 will fit 32 dual path mono, 3 optional Stems modules and a maximum of 5 dual path stereo modules, the master section, and patchbay.

Frame 32 standard configuration:

From left to right; 24 dual path mono modules, master section, 3 blank modules, 8 dual path mono modules and a maximum of 5 dual path stereo return modules (10 stereo returns), and patchbay.

Frame 48

The frame 48 will fit 48 dual path mono, 3 optional stems modules, 3 blanks and 5 dual path stereo modules, master section and patchbay.

Frame 48 standard configuration:

From left to right; 32 dual path mono modules, master section, 3 optional stems modules, 16 dual path mono modules, 5 dual stereo return modules (10 stereo returns), and patchbay.

Note: Cinemix's patchbay can be ordered on either end of the frame for a small price increase covering extra mechanical work for re-arranging of internal mounting of automation and Dynamics PCB's.

THE VIDEO MASTER SECTION

2.0 Master section - description

Cinemix's master section is equivalent (in width) to 6 input modules.

All CRM outputs are located on the rear of the console below the meter bridge.

The following paragraphs give a brief description of each section.

2.1 SOLO SECTION

The Solo section has a solo master volume control and **AFL** (after fade listen) switch.

A center detent (for nominal level) is built-in to the volume control. With the AFL switch in its up position, the Channel and Mix solo switches function in the **PFL** (pre fade listen) mode.

A Solo Active LED above the solo level control indicates a SOLO switch is depressed.

This is also shown in the LC Display for your convenience. If the **AFL** switch is depressed, any Solo switches function in the non destructive after fade listen mode.

2.2 METERS TO MAIN.

In the up position, all six meters read the monitor CRM outputs prior to the Encoder insert, when the "Meters to main" is depressed both the main left and right meters will always follow the main Left and Right output without being interrupted by the solo system, the 2 Tracks and decoder active switches.

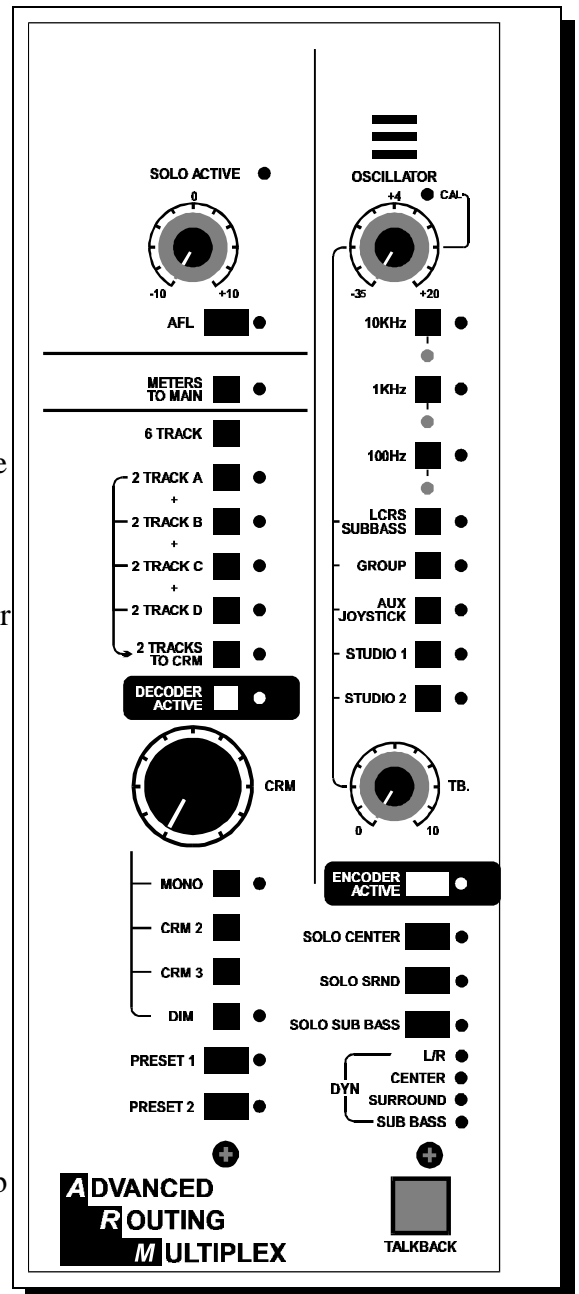
When the Encoder switch is depressed the left/Right meters will read the encoded signal.

2.3 CRM Section

The CRM (control room module) section contains the electronics for monitoring all signal paths in Cinemix as well as source switching for six track machines and four two track machines, as well as Solo-ing of Center, Surround, and Sub Woofer (except for decoder mode).

2.4 DECODER ACTIVE.

You can see the decoder active switch as a full 6 channel Dolby CP65 control room monitor insert. When this switch is in its up position a normal or eventually encoded stereo signal will be heard (If the encoder is active of course and the decoder switch is ON). When no Decoding device is connected to the Cinemix, there will be no signal when the DECODER ACTIVE switch is on



ENCODER ACTIVE.

This switch changes the Main output signal from the console to the Encoder output of an externally connected Encoder. The Surround left/Right signal will be mono summed .

2.5 CRM CONTROL ROOM MONITOR.

The large CRM knob controls the total of 6 outgoing levels to the control room monitor power amps. This encoder controls all six tracks with a superb tracking and level repeatability. Attenuation of the CRM is always shown in the LC display in the first level of the menu. It ranges from 0dB down to -63dB in 0.5dB steps and then it mutes the CRM completely. The Cinemix has three CRM systems intended for alternative stereo nearfield monitors which are switchable via the CRM 2, and 3 switches. Each alternate speaker system have their own ground compensated balanced XLR output for easy interchange of nearfields by free lance engineers. The main CRM output together with the Center Stereo Surround, and Subbass output are on a 25 pole sub D connector. Also fitted on the back of the master section are the sub D connectors for the encoding and decoding surround processors.

MONO

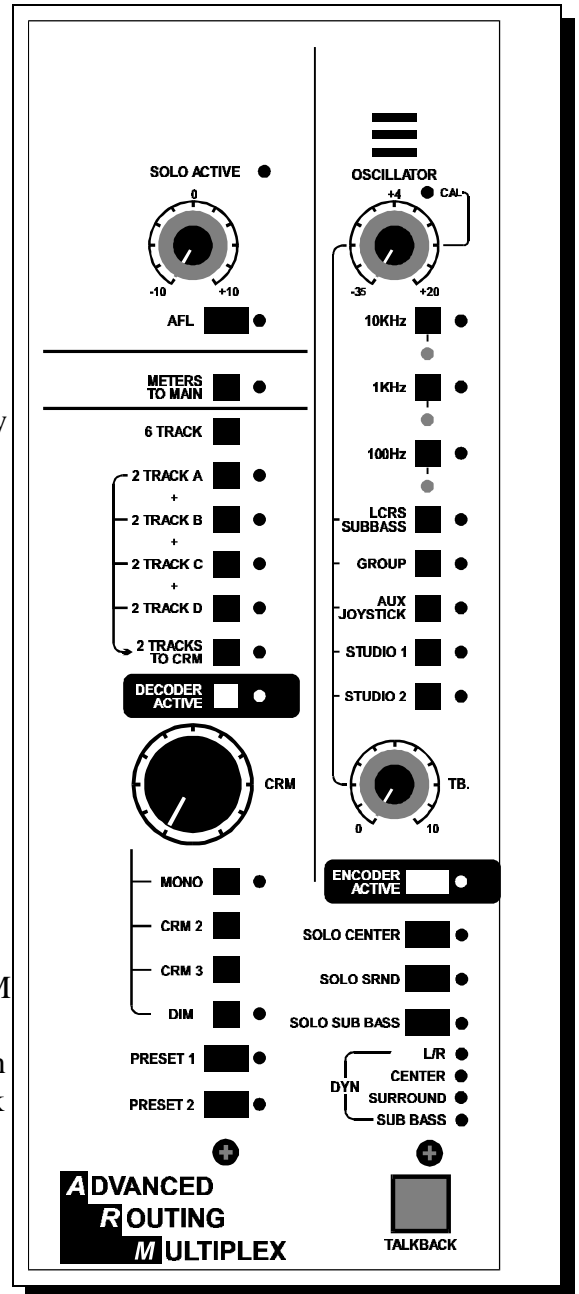
The mono switch lets you check mono compatability. The Mono switch allows the user to check for any out-of-phase signals or simply monitoring your mix in mono.

DIM

The dim switch temporarily dims Cinemix's CRM level by a pre programmable amount of attenuation. This dimming circuitry is also driven by the oscillator circuitry as well as the Talkback circuitry. The LC Display shows the amount of dimming when activated.

PRESET 1/2

These switches lets you determine a fixed CRM level, programmable in the automation. In this way it is always possible to return to a reference level of surround monitoring. By turning the CRM control to a desired level and pushing the Preset 1 or 2 for about 7 seconds the present attenuation level is stored. The preset led will lit, when storage is active. Two fixed levels can be set in this way.



SOURCE SWITCHING

Four two track return source switches and one six track return source switch is fitted to allow pre or post monitoring of a stereo mix from up to four stereo machines such as Dat, Reel to Reel, Cassette, and CD players, and/or Six track master machines.

Two track A through C are +4dBu and two track D is -10dBV (6Track is on +4dBu pro audio level). All of the 2 Tracks sources can be summed if necessary. When sourcing 2 Track machines all surround CRM monitors will be switched off, unless the Decoder Active switch is activated then the 2 Track signal will be decoded into full surround on all monitors.

Note: The 6 track source selector as well as the 2 Tracks to CRM will interrupt the CRM signal. The 2 Tracks A/B/C/D switches will not interrupt the CRM monitoring unless the 2 Tracks to CRM is activated!

MAIN FADER.

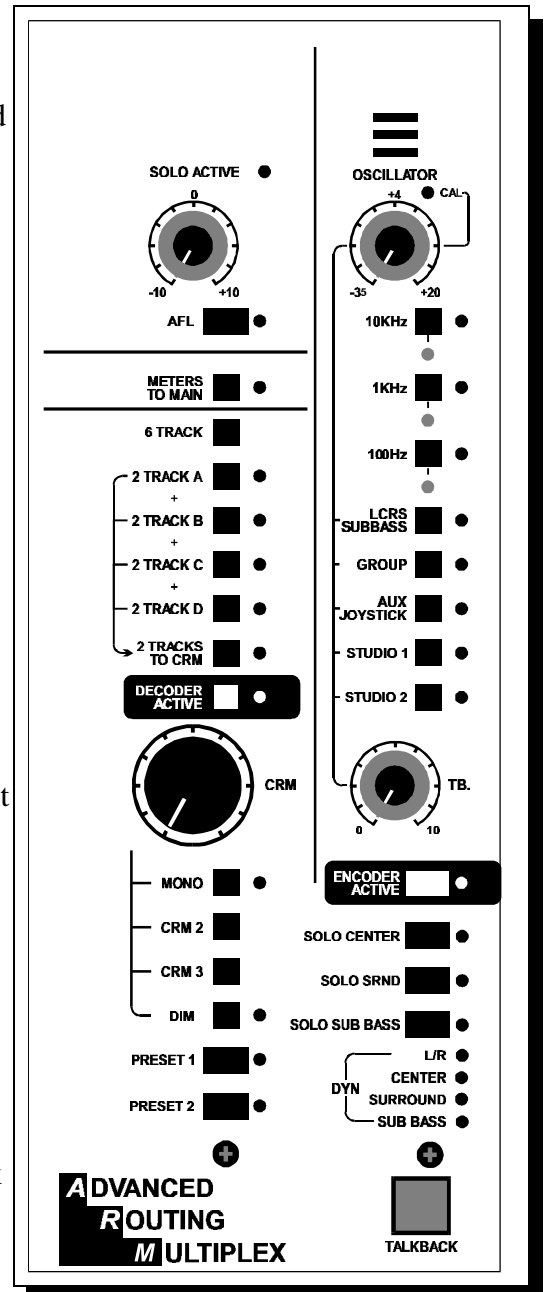
Located in the bottom of the master section is one 100mm PowerVCA controlled fader controlling six precision high end VCA's.

2.6 OSCILLATOR/TALKBACK SECTION

The three frequency, low distortion oscillator is a phase shift design. The frequencies are: 100Hz, 1kHz, and 10kHz. Each frequency has its own front panel alignment trimmer. A master level control is fitted to adjust the output of the oscillator for precise alignment of the console and tape machines. The level ranges from -35 dB to +20 dB with a detented mid-position of +4 dBu which can be trimmed by the CAL trimmer. There is also a pink noise generator built in for checking pan-pot movements and joystick routing.

The oscillator can be assigned to The LCRS and Subbass busses, the Group busses, the Aux/Joystick busses, and Studio 1/2 outputs, as well as the direct output (in the patchbay). Each of the oscillator assignment switches have a LED indicator.

The CRM will dim when the oscillator is active. (there is no dimming when the pink noise generator is active).



2.7 TALKBACK SECTION

A one way communication system is built into Cinemix. The built-in talkback mic can feed the LCRS/Sub Bass Groups, Auxes/Joystick busses, and/or Studio 1/2 outputs. The momentary **TB** talkback switch activates the internal electret microphone while dimming the main CRM monitor speakers.

2.8 DYNAMICS SECTION

Four LEDS indicate whether the optional virtual dynamics is active on any of the main output signals. (How the dynamics work will be discussed later in a specific 13.00 dynamics section).

2.9 AUX MASTER SECTION

The Aux master section is located at the right side of the master module and houses the 10 Aux masters controlling the output level of the Aux sends. Aux 1 through 4 are fixed in the CHAN path and Aux 5/6 selectable between CHAN and MIX.

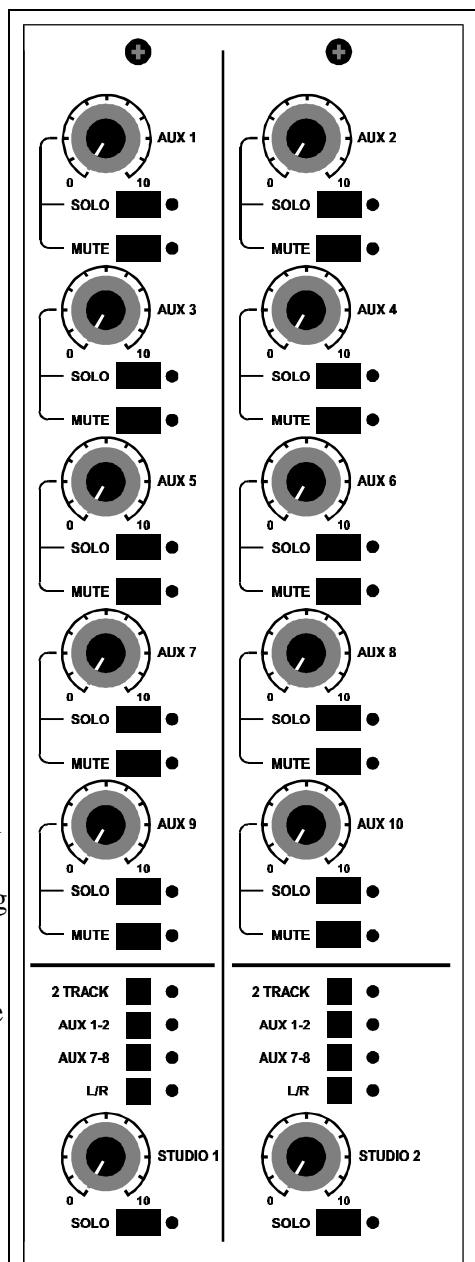
Aux 7/8 and 9/10 are always in the MIX path.

Each Aux master has its own solo switch.

All Aux master solo switches are **AFL** (after fade listen) switches independent of the selection made in the SOLO control section. All mutes are soft mutes and under control of the automation section. The Aux outputs are ground compensated balanced and normalised in the patchbay to the Tie-lines.

2.10 STUDIO 1 - 2 SECTIONS.

STUDIO 1 and **STUDIO 2** sections get their signal from several different places and feed two sets of stereo outputs which are also located in the master section of the patchbay. The 2 studio outputs can source the **Aux 1-2** and /or **Aux 7-8**. The **2 TRACKS** switch needs a little more explanation. With Cinemix, you can listen to stereo machines in the studio while listening to the stereo mix outputs in the control room by pressing one of the 2 track source switches and the **2 Tracks** switch. By having all the source switches in their up position no signal is fed to the Studio systems. Aux 1-2 and Aux 7-8 can be mixed (from the input modules) and fed to the **Studio 1, 2**, or both outputs. With the **2 TRACKS** switch in the down position, a selection can be made from any or all two track source switches in the CRM section. If you would like to build up a mix from one of the Aux pairs, press **Aux 1-2** and or **Aux 7-8** switches. Studio 1, 2, or both can be used for stereo headphone feeds or studio playback speakers.



2.11 METERING

Master metering

The Cinemix has a total of six VU meters above the master section in the meterbridge. Analog VU meters will indicate the average level in the signal paths.

A separate **Phase** meter indicates any phase shift between the left and right signals. In most cases, switching the phase switch on selected input modules can correct the phase shift.

Mono and Stereo module meters

Due to the extreme transients in digital recordings, Cinemix's "**Peak**" reading channel meters have an extended range from -30dB up to a reading of +6dB. The bottom LED on all D&R LED bargraph meters is an indicator that the associated module is on. When first powering up, always check all "ON" LEDs under each meter.

If any "ON" LED is not lite, turn off the power supplies and call D&R for service advice. Both mono and stereo input module meters have peak ballistics with 13 segments. Cinemix's meters can be switched (individually) to read the **CHAN**nel section or **MIX** section of each module locally.

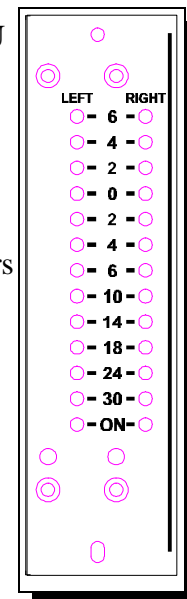
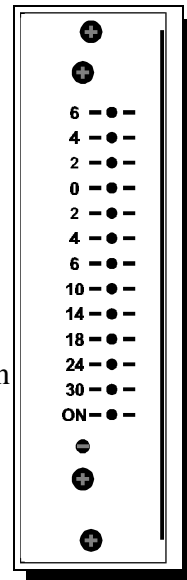
The channel meters are a peak reading design and read 0dB when an oscillator sine wave with a +4 dB output level is sent to the meter. Measuring the +4 dB output level of the channel or master with a AC voltmeter would give a 1.22 AC volt reading.

When monitoring the oscillator on analog VU meters, the VU meters should read "0" when the channel meters are reading 0dB.

We have discontinued the habit of making peak reading meters to read -6 dB down from the actual output level for corresponding VU meter readings.

With more and more digital equipment being used for laying down tracks, the actual level is of primary importance to know to avoid digital overloads.

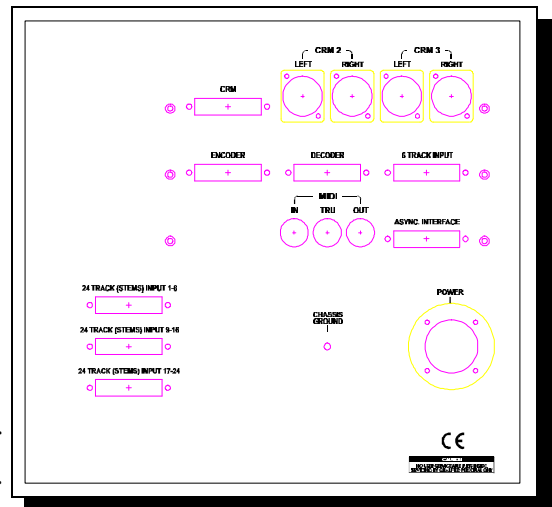
After all alignment procedures have been performed, playing program material will show a difference in reading on the VU meters compared to the peak reading ledbars in the channels.



2.12 MASTER INPUTS/OUTPUTS

Cinemix interfaces easily with external equipment such as two track master machines, signal processors, headphone amps, and power amps. Interfacing is possible using the connectors on the master back panels, and through 25 pole sub D male connectors. Listed below are all inputs and outputs for the master modules.

The master backpanel houses the 24 Track Stems inputs for a maximum of two 24 track machines, the six (5.1) CRM outputs, encoder and decoder sub-D connector. A six track input CRM 2 and 3 on XLR connectors. The PC computer connector and the Midi in, thru, and out din type connectors. A Speakon type connector is used for powering up the Cinemix and a separate chassis ground is provided. A detailed connection diagram will be shown in the installation section of the manual.



2.13 RECALL / AUTOMATION

If you would like to set-up for your first Cinemix session, read the following simple steps. It is most important to understand that the **Recall** Automation is static and **PowerVCA** (faders, Mutes) automation is dynamic and completely separate. We will first discuss **Recall/Automation**.

The LC Display boots up with the same information it had when it was powered down.

Press ESC until it reads as follows:

CRM:	-10dB	SOLO
ARM	Dyn	Proj
	Setup	

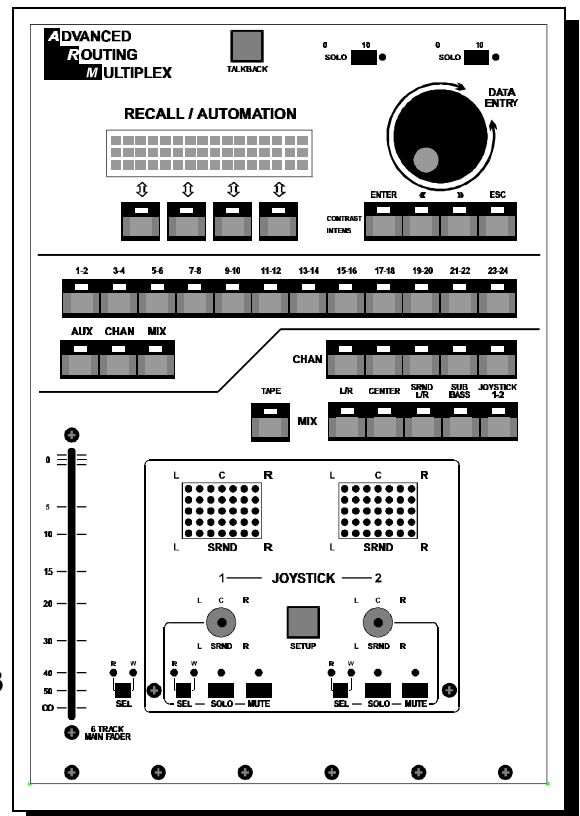
PROJ. (Project) Numbering your Project.

For ease of understanding we will call the four grey Switches (below the LCD display) **S1 S2 S3** and **S4**.

After pressing **S3** (Project), you can enter the project number (from 1 to 32).

You can Call and Save projects in the same manner.

NOTE: A project saves all routing settings and the Joystick setup.



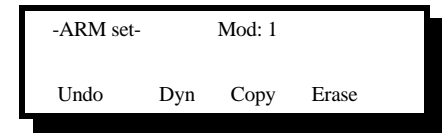
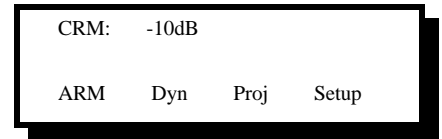
ARM

Press the ESC switch until the LCD display reads as follows:

By pressing **ARM** (S1), the ARM software will become active and the following changes take place in the LC Display: See the example printed alongside the page.

You could then turn the **DATA ENTRY** wheel (or the << >>) until the desired module's **ARM** switch is lite.

The LC Display module number changes and the **ARM** switches switch lights change to the adjacent module (in either direction) as you turn the wheel. In most cases it is faster to go to the module you would like to route from and press the **local ARM** switch. The **ARM** switch in the selected module lights up. By pressing any **ARM** switch, new module numbering information in the LCD will appear and the corresponding routing settings will be shown by the LEDs in the **ARM** section of that module.



The ESC switch will take you out of the **ARM** menu. You can press an active **ARM** switch to achieve the same results. The **ARM** mode will show the routing settings of the selected module.

ROUTING INPUT MODULES

A more detailed explanation of input module routing is described in the next section of this manual, we will discuss a simplified version now (this makes it easier to understand other functions being discussed in this section).

Step 1: Press an **ARM** switch on any desired input module.

Step 2: If you would like this module's **CHAN**nel section routed to track 24, press the **CHAN** switch under the black routing switches labeled (1-2 / 3-4 / 5-6) and then press the 23-24 switch.

Now the routing you've made is stored in memory.

Step 3: If you would like this same module's **MIX** section to be routed to the stereo mix buss so you could monitor that track, press the black **L/R** switch in the mix section right from the tape switch. Now you have two different things from that input module stored.

You can assign the Aux 5-6 in the same manner. In order to have more aux send busses, you can route **AUX 5-6** to the 24 routing busses.

CHANGING CHANNEL DATA.

In the **ARM** section of the master module you can assign all module routing settings by pressing the associated switches. These settings will be stored in real time.

If new data is entered in the **ARM** section and you're not pleased press the Undo switch to restore the old data. The CLR switch will erase all data in that module. The << and >> switches as well as the **DATA ENTRY** (encoder) knob will allow you to select another module. A faster method is to hit the **ARM** switch in the module that needs routing changes.

MODULE SETUP COPYING

The **S3 (Copy)** switch allows you to copy a selected module's setup to another module or to all modules. The following are easy steps describing this operation.

Step 1: Select a module, press the **S3 (Copy)** switch and select another module by the **DATA ENTRY** (encoder) control knob.

-ARM Set-		Mod: 1	
Undo	Dyn	Copy	Erase

Step 2: As soon as you hit **ENTER** all data will be copied to the selected module (or all) and the data from these modules will be stored in Cinemix's memory (on board microprocessor). S4 will also store the copying process.

Note: Press ESC to leave the copy menu.

-ARM set-		Mod: 1	
Copy to		Mod: 2	

DYNamics

By depressing the Dyn switch S2 you enter the dynamics menus. It looks like this

The data entry knob let's you toggle between the channel and Mix part of the input modules, while the ARM switches let's you choose the module you want to ad dynamics to.

-Dynamics-		Mod Mn 1 Chan	
Dyn	ARM	Proj	Lib

All data related to the selected module can be changed by pushing S1 up to S4. Its related LED lites and the encoder can change dynamics data. The << >> switches rolls through all the parameters that can be adjusted by the data wheel.

ESC leaves the Dynamics parameter menu and lets you move to another module by way of the local module's ARM switch or the Data entree wheel.

PROJECT

All settings related to a project are made in "Dynamics" display.

S3 (Proj) selects the project. In the project menu you can select a project number by depressing the << and >> switches or turning the **DATA ENTRY** encoder control.

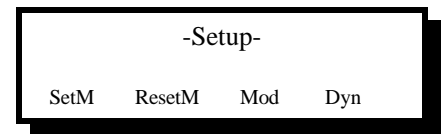
A maximum of 32 projects can be stored

The **S1 (CALL)** switch **Recalls** a project. S4 (save) saves the project.

Project	Proj.	32
Call	Save	

Cinemix's SET menu

When you press Cinemix's Set (S4) switch, the LC Display reads as follows:



By pressing **SetM** (S1) all **MUTE** switches will mute.
Pressing **ResetM** (S2) all mute switches will un-mute.

AUTOMATION.

Paragraph 12.0 PowerVca automation will outline the setup and use of D&R's PowerVCA SMPTE based Automation. Since this section of Cinemix's manual is an insert, the page numbers will not be in sequence with the balance of this manual. Optional PowerFade (D&R's moving fader automation) is available, however not discussed in this section.

ARM/SET FOR AUTOMATED JOYSTICKS.

A unique feature in Cinemix are the two automated joysticks with its Virtual Vision concept of showing you the position of the audio signal when controlled from D&R's PowerVCA automation. The "Set-up" switch serves actually the same purpose as the ARM switches in the modules.

ASSIGNING A CHANNEL TO A JOYSTICK

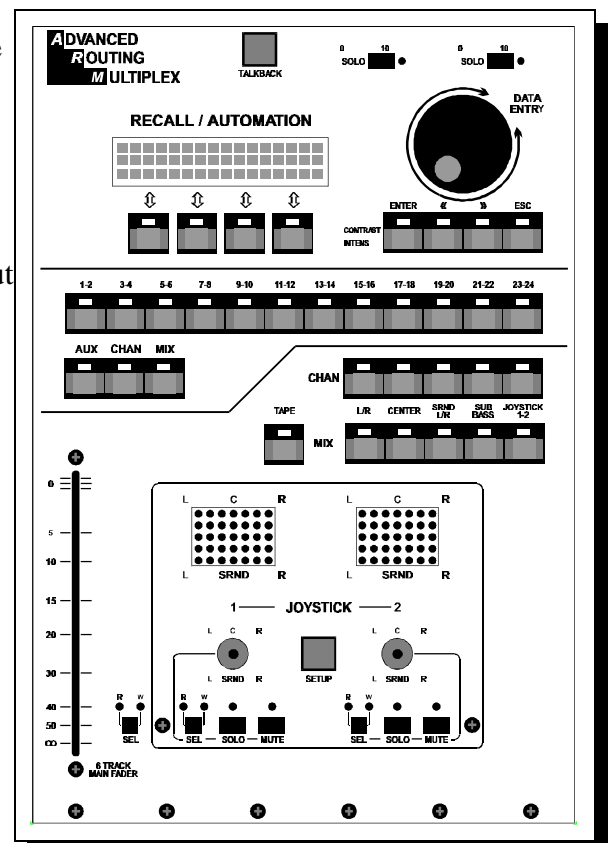
To assign a channel to a Joystick follow the next steps.

a. depress an ARM switch in a module and be sure that no master routing switch such as L/R, Center, SRND L/R, is assigned at that moment.

b. Joystick 1 output corresponds with the CHAN routing section and Joystick 2 output with the MIX routing section below the black 12 ARM routing switches.

c. Now pan in the module fully left (joystick 1) or fully right (joystick 2) and assign the corresponding joystick switches (top row is Joystick 1 and lower row is Joystick 2). let's assume you want to use Joystick 1.

d. Pan fully left in the module (either Chan or Mix path) and depress the upper or lower yellow Joystick assign switch. The module's signal path is now assigned to the joystick input (either 1 or 2).



e. Now depress the ARM switch in the Joystick area and assign the joystick output to L/R, Center or SRND (all or any combination). The Virtual Vision matrix will show the panning ranges possible with corresponding assignments. All movements will be memorized in PowerVCA together with mutes.

NOTE:

Joystick 1 output corresponds with the upper (CHAN) row for joystick output assignments.

Joystick 2 output corresponds with the lower (MIX) row for joystick output assignments.

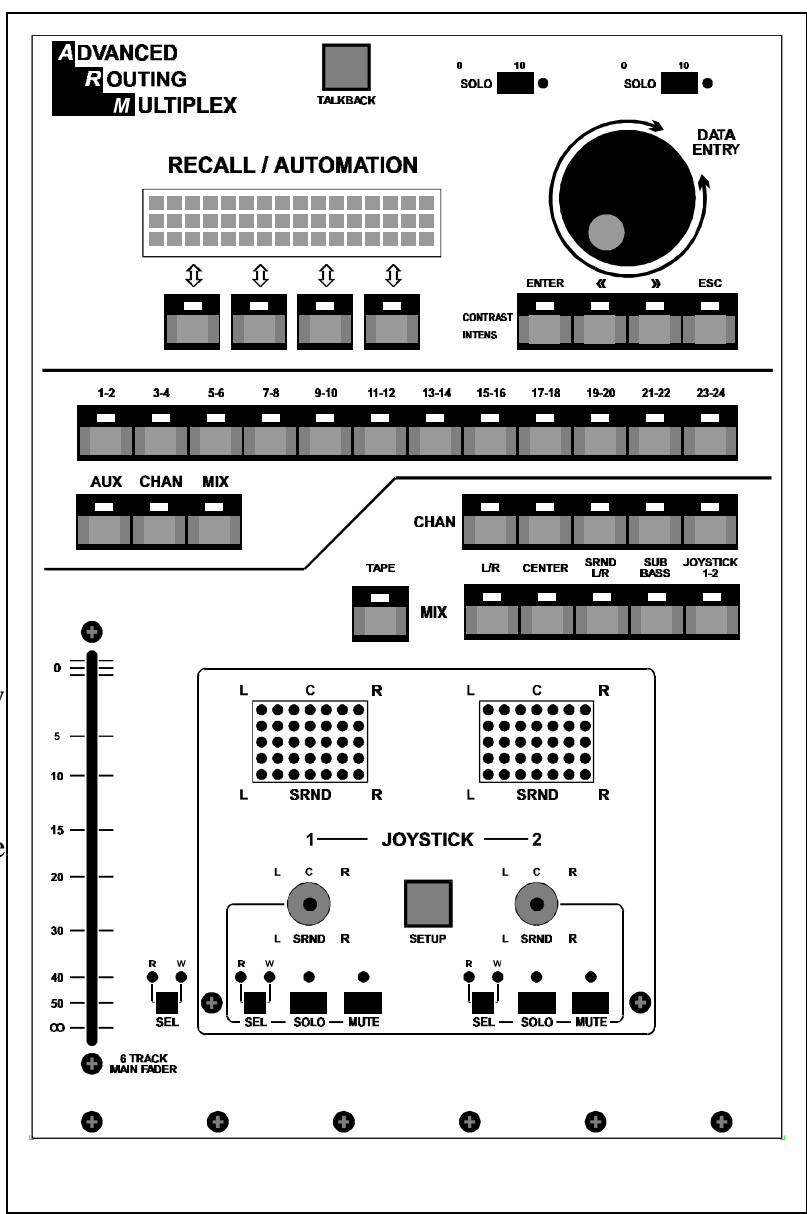
The SubBass routing switch will not follow the joystick outputs.

All joystick routing switches can also be assigned directly from the channels pan-pots, together with the Sub Bass output of course.;

A host of possibilities are there to explore, It will take some time to manipulate all the possibilities Cinemix gives you in this area. Features like read and write on the automation screen and Solo and Mute.

2.14 TAPE SWITCH

The tape switch will globally switch all mono dual input channels' mix sections to follow either the group output or the multitrack tape output.



THE FILM MASTER SECTION

2.15 Master section - description

Cinemix's film master section is equivalent (in width) to 6 input modules.

All CRM outputs are located on the rear of the console below the meter bridge.

The following paragraphs give a brief description of each section.

2.16 SOLO SECTION

The Solo section has a solo master volume control and **AFL** (after fade listen) switch.

A center detent (for nominal level) is built-in to the volume control. With the AFL switch in its up position, the Channel and Mix solo switches function in the **PFL** (pre fade listen) mode.

A Solo Active LED above the solo level control indicates a SOLO switch is depressed.

This is also shown in the LC Display for your convenience. If the **AFL** switch is depressed, any Solo switches function in the non destructive after fade listen mode.

2.17 METERS TO MAIN.

In the up position, all six meters read the monitor CRM outputs prior to the Encoder insert, when the "Meters to main" is depressed both the main left and right meters will always follow the main Left and Right output without being interrupted by the solo system, the 2 Tracks and decoder active switches.

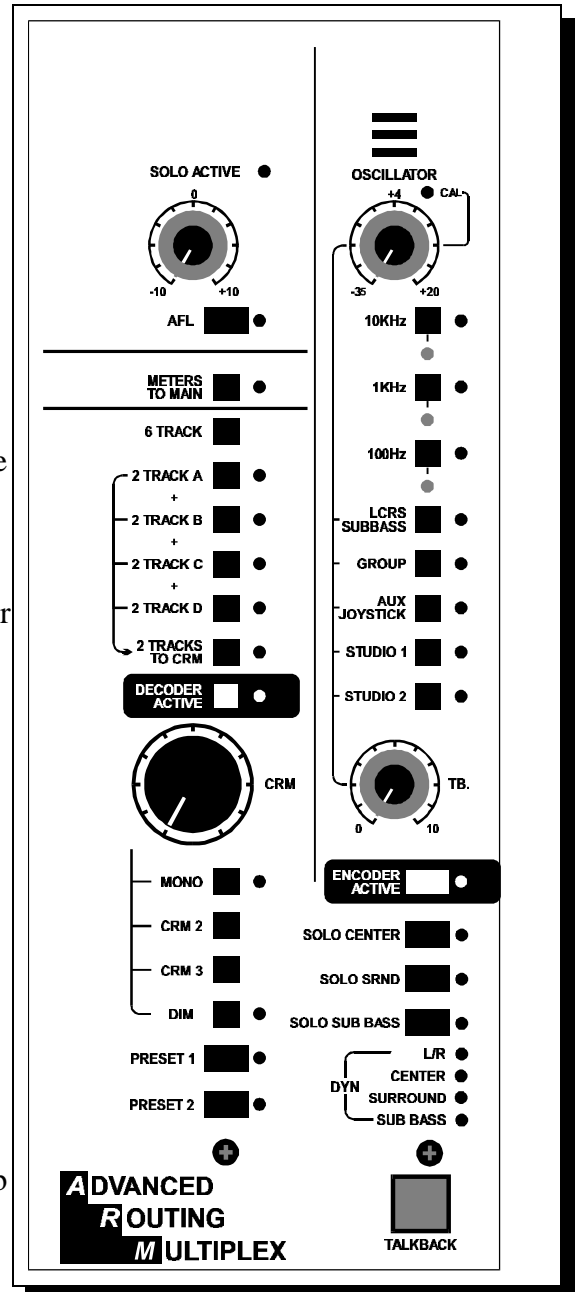
When the Encoder switch is depressed the left/Right meters will read the encoded signal.

2.18 CRM Section

The CRM (control room module) section contains the electronics for monitoring all signal paths in Cinemix as well as source switching for six track machines and four two track machines, as well as Solo-ing of Center, Surround, and Sub Bass. (except for decoder mode)

2.19 DECODER ACTIVE.

The decoder switch converts the eventually encoded stereo signal back to the CRM. You can also see it as a full 6 channel Dolby CP65 control room monitor insert. When this switch is in its up position a normal or eventually encoded stereo signal will be heard (If the encoder is active of course and the decoder switch is ON). When no Decoding device is connected to the Cinemix, there will be no signal when the DECODER ACTIVE switch is on.



ENCODER ACTIVE.

This switch changes the Main output signal from the console to the Encoder output of an externally connected Encoder. The Surround left/Right signal will be mono summed.

2.20 CRM CONTROL ROOM MONITOR.

The large CRM knob controls the total of 6 outgoing levels to the control room monitor power amps. This encoder controls all six tracks with a superb tracking and level repeatability. Attenuation of the CRM is always shown in the LC display in the first level of the menu. It ranges from 0dB down to -60dB in 0.5dB steps and then it mutes the CRM completely. The Cinemix has three CRM systems intended for alternative stereo nearfield monitors which are switchable via the CRM 2, and 3 switches. Each alternate speaker system have their own ground compensated balanced XLR output for easy interchange of nearfields by free lance engineers. The main CRM output together with the Center Stereo Surround, and Subbass output are on a 25 pole sub D connector. Also fitted on the back of the master section are the sub D connectors for the encoding and decoding surround processors.

MONO

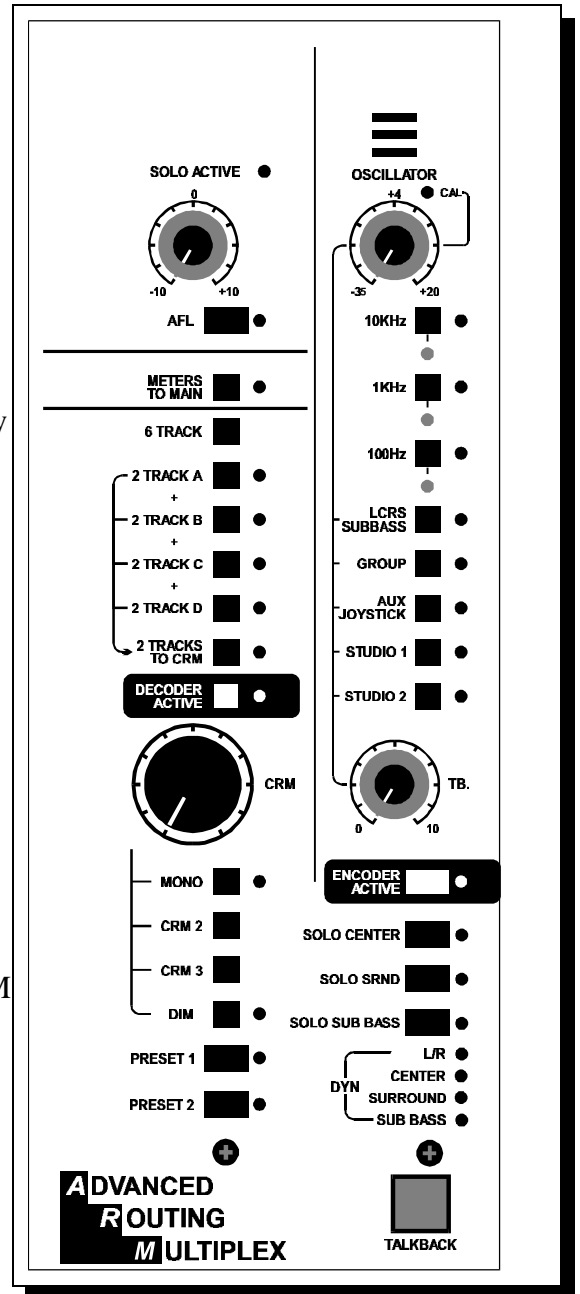
The mono switch lets you check mono compatability. The Mono switch allows the user to check for any out-of-phase signals or simply monitoring your mix in mono.

DIM

The dim switch temporarily dims Cinemix's CRM level by any amount which is programmable in the setup menu. This dimming circuitry is also driven by the oscillator circuitry as well as the Talkback circuitry. The LC Display shows the amount of dimming when activated.

PRESET 1/2

These switches lets you determine a fixed CRM level, programmable in the automation. In this way it is always possible to return to a reference level of surround monitoring. By turning the CRM control to a desired level and pushing the Preset 1 or 2 for about 3 seconds the present attenuation level is stored, untill changed by another setting. Two fixed levels can be set in this way.



SOURCE SWITCHING

Four two track return source switches and one six track return source switch is fitted to allow pre or post monitoring of a stereo mix from up to four stereo machines such as Dat, Reel to Reel, Cassette, and CD players, and/or Six track master machines.

Two track A through C are +4dBu and two track D is -10dBV (6Track is on +4dBu pro audio level). All of the 2 Tracks sources can be summed if necessary. When sourcing 2 Track machines all surround CRM monitors will be switched off, unless the Decoder Active switch is activated then the 2 Track signal will be decoded into full surround and all monitors.

Note: The 6 track source selector as well as the 2 Tracks to CRM will interrupt the CRM signal. The 2 Tracks A/B/C/D switches will not interrupt the CRM monitoring unless the 2 Tracks to CRM is activated!

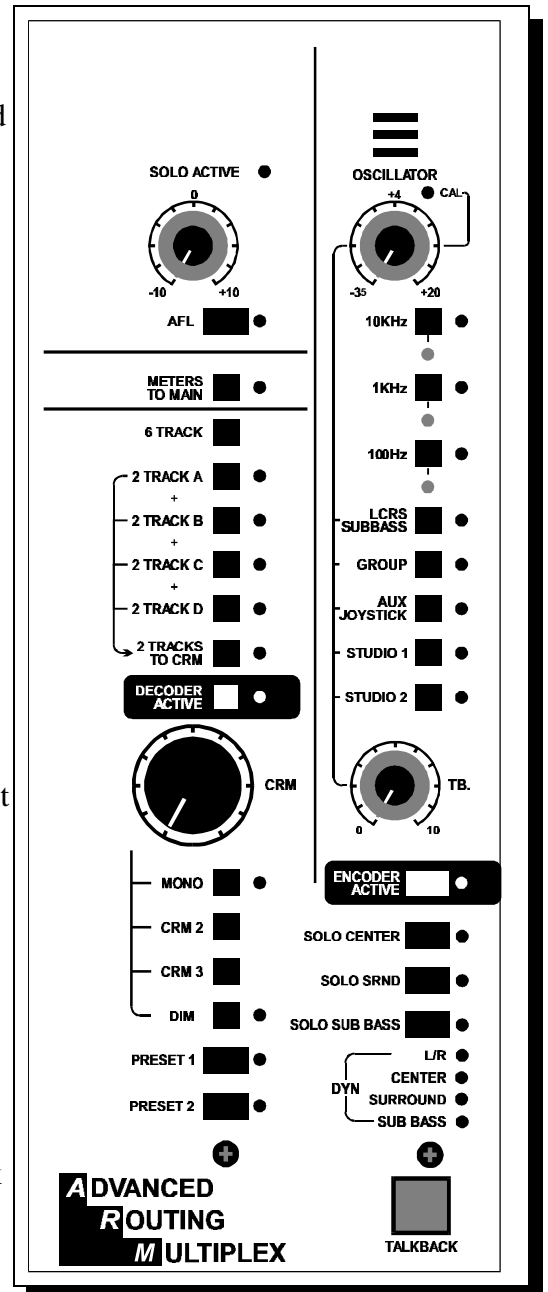
MAIN FADER.

Located in the bottom of the master section is one 100mm PowerVCA controlled fader controlling six precision high end VCA's.

2.21 OSCILLATOR/TALKBACK SECTION

The three frequency, low distortion oscillator is a phase shift design. The frequencies are: 100Hz, 1kHz, and 10kHz. Each frequency has its own front panel alignment trimmer. A master level control is fitted to adjust the output of the oscillator for precise alignment of the console and tape machines. The level ranges from -35 dB to +20 dB with a detented mid-position of +4 dBu which can be trimmed by the CAL trimmer. There is also a pink noise generator built in for checking pan-pot movements and joystick routing.

The oscillator can be assigned to The LCRS and Subbass busses, the Group busses, the Aux/Joystick busses, and Studio 1/2 outputs, as well as the direct output (in the patchbay). Each of the oscillator assignment switches have a LED indicator. The CRM will dim a programmed amount of attenuation when the oscillator is active. (there is no attenuation when the Pink Noise generator is active.



2.22 TALKBACK SECTION

A one way communication system is built into Cinemix. The built-in talkback mic can feed the LCRS/Sub Bass Groups, Auxes/Joystick busses, and/or Studio

1/2 outputs. The momentary **TB** talkback switch activates the internal electret microphone while dimming the main CRM monitor speakers.

2.23 DYNAMICS SECTION

Four LEDs indicate whether the optional virtual dynamics is active on any of the main output signals. (How the dynamics work will be discussed later in a specific 13.00 dynamics section).

2.24 AUX MASTER SECTION

The Aux master section is located at the right side of the master module and houses the 10 Aux masters controlling the output level of the Aux sends. Aux 1 through 4 are fixed in the CHAN path and Aux 5/6 selectable between CHAN and MIX.

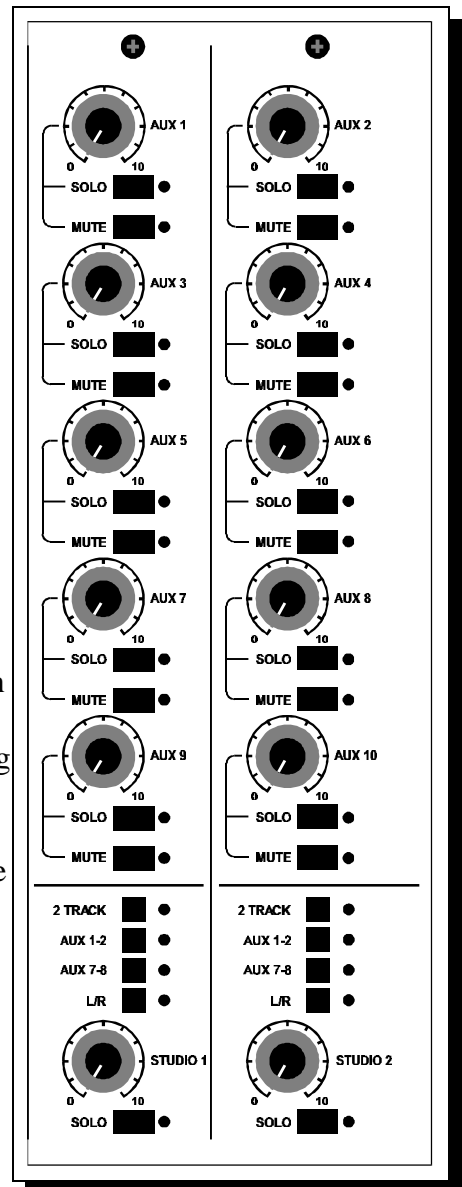
Aux 7/8 and 9/10 are always in the MIX path.

Each Aux master has its own solo switch.

All Aux master solo switches are **AFL** (after fade listen) switches independent of the selection made in the SOLO control section. All mutes are soft mutes and under control of the automation section. The Aux outputs are ground compensated balanced and normalised in the patchbay to the Tie-lines.

2.25 STUDIO 1 - 2 SECTIONS.

STUDIO 1 and **STUDIO 2** sections get their signal from several different places and feed two sets of stereo outputs which are also located in the master section of the patchbay. The 2 studio outputs can source the **Aux 1-2** and /or **Aux 7-8**. The **2 TRACKS** switch needs a little more explanation. With Cinemix, you can listen to stereo machines in the studio while listening to the stereo mix outputs in the control room by pressing one of the 2 track source switches and the **2 Tracks** switch. By having all the source switches in their up position no signal is fed to the Studio systems. Aux 1-2 and Aux 7-8 can be mixed (from the input modules) and fed to the **Studio 1, 2**, or both outputs. With the **2 TRACKS** switch in the down position, a selection can be made from any or all two track source switches in the CRM section. If you would like to build up a mix from one of the Aux pairs, press **Aux 1-2** and or **Aux 7-8** switches. Studio 1, 2, or both can be used for stereo headphone feeds or studio playback speakers.



2.26 METERING

Master metering

The Cinemix has a total of six VU meters above the master section in the meterbridge. Analog VU meters will indicate the average level in the signal paths.

A separate **Phase** meter indicates any phase shift between the left and right signals. In most cases, switching the phase switch on selected input modules can correct the phase shift.

Mono and Stereo module meters

Due to the extreme transients in digital recordings, Cinemix's "**Peak**" reading channel meters have an extended range from -30dB up to a reading of +6dB. The bottom LED on all D&R LED bargraph meters is an indicator that the associated module is on. When first powering up, always check all "ON" LEDs under each meter.

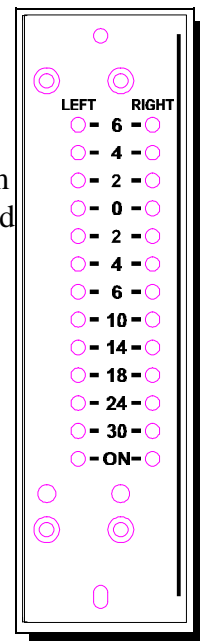
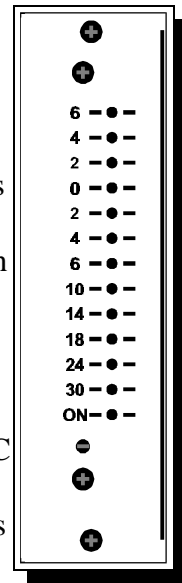
If any "ON" LED is not lite, turn off the power supplies and call D&R for service advice. Both mono and stereo input module meters have peak ballistics with 13 segments. Cinemix's meters can be switched (individually) to read the **CHAN**nel section or **MIX** section of each module locally.

The channel meters are a peak reading design and read 0dB when an oscillator sine wave with a +4 dB output level is sent to the meter. Measuring the +4 dB output level of the channel or master with a AC voltmeter would give a 1.22 AC volt reading.

When monitoring the oscillator on analog VU meters, the VU meters should read "0" when the channel meters are reading 0dB. We have discontinued the habit of making peak reading meters to read -6 dB down from the actual output level for corresponding VU meter readings.

With more and more digital equipment being used for laying down tracks, the actual level is of primary importance to know to avoid digital overloads.

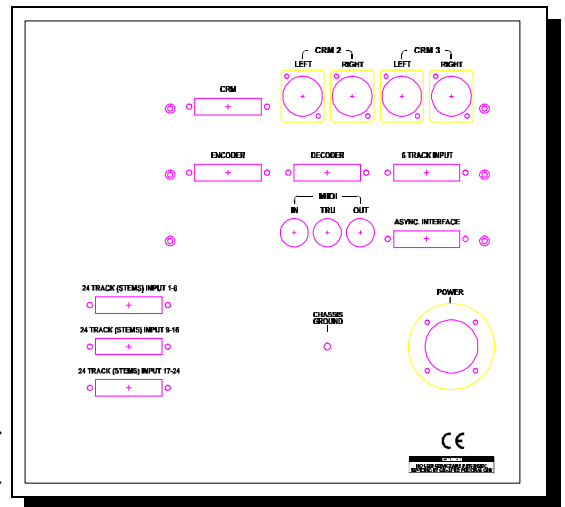
After all alignment procedures have been performed, playing program material will show a difference in reading on the VU meters compared to the peak reading ledbars in the channels.



2.27 MASTER INPUTS/OUTPUTS

Cinemix interfaces easily with external equipment such as two track master machines, signal processors, headphone amps, and power amps. Interfacing is possible using the connectors on the master back panels, and through 25 pole sub D male connectors. Listed below are all inputs and outputs for the master modules.

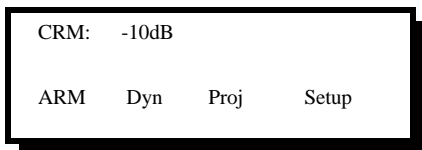
The master backpanel houses the 24 Track Stems inputs for a maximum of two 24 track machines, the six (5.1) CRM outputs, encoder and decoder sub-D connector. A six track input CRM 2 and 3 on XLR connectors. The PC computer connector and the Midi in, thru, and out din type connectors. A Speakon type connector is used for powering up the Cinemix and a separate chassis ground is provided. A detailed connection diagram will be shown in the installation section of the manual.



2.28 RECALL / AUTOMATION

If you would like to set-up for your first Cinemix session, read the following simple steps. It is most important to understand that the **Recall** Automation is static and **PowerVCA** (faders, Mutes) automation is dynamic and completely separate. We will first discuss **Recall/Automation**.

The LCDisplay boots up with the same information it had when it was powered down. Press ESC until it reads as follows:



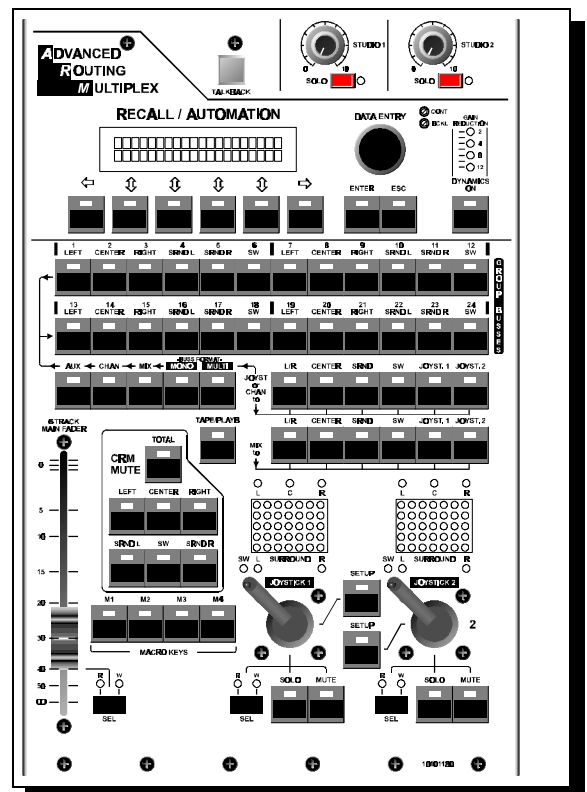
PROJ. (Project) Numbering your Project.

For ease of understanding we will call the four of the six grey Switches (below the LCD display) **S1 S2 S3** and **S4**.

After pressing **S3** (Project), you can enter the project number (from 1 to 30).

You can Call and Save projects in the same manner.

NOTE: A project stores all routing settings, Mute settings and the Joystick set-up.

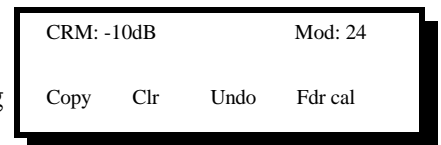
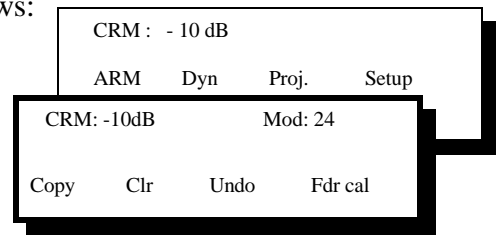


ARM

Press the ESC switch until the LCD display reads as follows:

By pressing **ARM** (S1), the ARM software will become active and the following changes take place in the LC Display: See the example printed alongside the page. You could then turn the **DATA ENTRY** wheel until the desired module's **ARM** switch is lit.

The LC Display module number changes and the **ARM** switches switch lights change to the adjacent module (in either direction) as you turn the wheel. In most cases it is faster to go to the module you would like to route from and press the **local ARM** switch. The **ARM** switch in the selected module lights up. By pressing any **ARM** switch, new module numbering information in the LCD will appear and the corresponding routing settings will be shown by the LEDs in the **ARM** section of that module. The LCDisplay shows the following options while in the ARM mode>



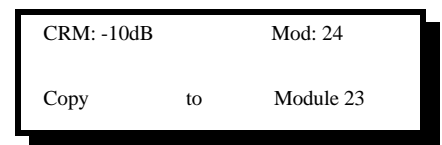
MODULE SETUP COPYING

The **S1 (Copy)** switch allows you to copy a selected module's setup to another module or to as many (or all) modules you would prefer.

The following are easy steps describing this operation.

Step 1: Select a module, press the **S1 (Copy)** switch and select another module (or all) with the **DATA ENTRY** control knob.

Step 2: As soon as you hit **ENTER** all data will be copied to the selected module (or all) and the data from these modules will be stored in Cinemix's memory (on board microprocessor).



CLEAR

The clear switch restes all data on a module or on all modules.

UNDO

The undo switch un does all changes programmed earlier in that ARM session only.

FADER CAL

The fader cal switch bypasses the fader position and adjust the channels fader gain to unity. Motor faders will be positioned on their electrical 0dB position.

Note: Press ESC to leave the copy menu.

The ESC switch will take you out of the **ARM** menu. You can press an active **ARM** switch to achieve the same results. The **ARM** mode will show the routing settings of the selected module.

ROUTING INPUT MODULES

A more detailed explanation of input module routing is described in the next section of this manual, we will discuss a simplified version now (this makes it easier to understand other functions being discussed in this section).

Step 1: Press an **ARM** switch on any desired input module.

Step 2: If you would like this module's **CHAN**nel section routed to track 24, press the **CHAN** switch under routing switches labeled (1/2/3..../22/23/24) and then press the 24 switch.

Now the routing you've made is stored in memory.

Step 3: If you would like this same module's **MIX** section to be routed to the stereo mix buss so you could monitor that track, press the black **L/R** switch in the mix section right from the tape switch. Now you have two different things from that input module stored.

You can assign the Aux 5-6 in the same manner. In order to have more aux send busses, you can route **AUX 5-6** to the 24 routing busses.

CHANGING CHANNEL DATA.

In the **ARM** section of the master module you can assign all module routing settings by pressing the associated switches. These settings will be stored in real time.

If new data is entered in the **ARM** section and you're not pleased press the Undo switch to restore the old data. The Clear switch will erase all data in that module. The **DATA ENTRY** (encoder) knob will allow you to select another module. A faster method is to hit the **ARM** switch in the module that needs routing changes.

BUSS FORMAT

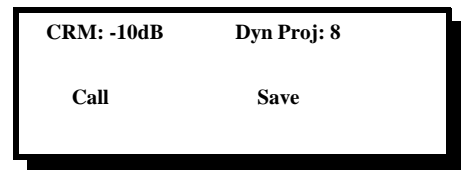
There are two formats to choose from Mono, Multi, or Mono+Multi off

The following assignments can be made;

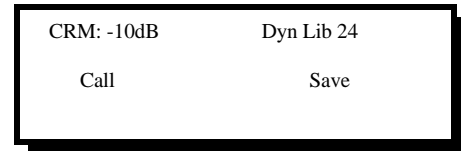
- | | |
|--------|---|
| Mono | The Pan-pot is not active on the buss routing |
| Multi; | The buss is in multi format mode meaning that |
| | 1,7,13,19 is Left |
| | 2,8,14,20 is Center |
| | 3,9,15,21 is Right |
| None | The buss is stereo |
| | 1=Left, 2=Right, 3=Left, 4=Right etc. |

DYNamics

By depressing the Dyn switch S2 you enter the dynamics menu. It looks like this >

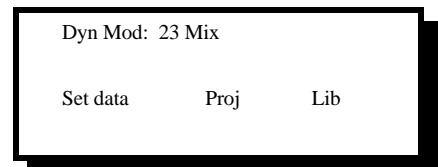


By depressing S1 (Set data) you enter the lower level of the dynamics menu and it can show like this >



All data related to the selected module can be changed by pushing S1, S2, S3 or S4. Its related LED lites and the encoder can change dynamics data. The << and >> switches (left and right from the S1-4 switches) rolls through all the parameters that can be adjusted by the data wheel.

ESC leaves the Dynamics parameter menu and lets you move to another module.



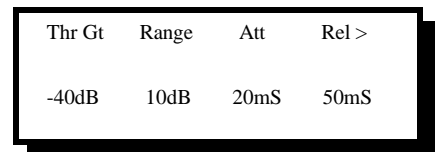
PROJECT

All settings related to a project are made in the "Dynamics" display.

S3 (Proj) selects the project. In the project menu you can select a project number using the **DATA ENTRY** encoder control.

A maximum of 8 projects can be stored

The **S1 (CALL)** switch **Recalls** a project. S4 (save) saves the project.



LIB

When S4 is pressed the Lib menu appears for dynamics settings you want to save. The menu looks like this >

There is a maximum capacity for saving of 24 parameter settings. These can be assigned to individual modules or to all the modules.

Cinemix's SET menu

When you press Cinemix's Setup (S4) switch, the LC Display reads as follows:

CRM: -10dB
Mod. Dyn. Macro DimL

By pressing **Mod** (S1) the following display will be shown.

In this menu you can assign the module to be Mono/Stereo and you can give it a number, preferable corresponding with the module number of course. These selections are made with S2 S3 and S4

By pressing the **Dyn** switch (S2) depending upon you have that option you see “No dynamics option” or the Cinemix will enter the dynamics Setup menus. In this menu you can give a specific VCA a name such as Mstr Rght for instance.

By pressing the Macro switch (S4) the following menu will be shown.

CRM: -10dB	Macro Setup
Select macro key	

Now you can select one of the M1 to M4 macro keys located nearby the master fader. The LCD will change into the following display. See example>

The next step is to select one or more of the input modules by pushing the ARM switches. Now the selected macro key will activate all selections made now in the ARM area, such as Tape, routing, Fdr cal etc etc. As soon as you leave the menu by hitting the esc switch the macro key will hold the programmed information.

CRM: -10dB	Macro Setup
Sel; Mod&func.	Fdr cal

The other possibility in the macro Setup menu is the fader calibration with S4 for the upper (channels) part of the Cinemix input modules. Every module that is selected in the fader cal mode will be set at unity gain ideal for STEMS (pre-mix) returns. It is a setup for a dir/playback macro for tape.

DimL

When the Dim level (S4) is selected the following menu will be shown >

The dim level will be subtracted from the preset level and adjustment is made via the Data entry knob

CRM: -10dB	Dim Setup
Dim level:	-20 dB

Note:

In the Setup menu (top layer) The < switch shows you the console setup, its internal Eprom version and the software date.

The > switch activates and deactivates all mutes in the console .

AUTOMATION.

Paragraph 12.0 PowerVca automation will outline the setup and use of D&R's PowerVCA SMPTE based Automation. Since this section of Cinemix's manual is an insert, the page numbers will not be in sequence with the balance of this manual. Optional PowerFade (D&R's moving fader automation) is available, however not discussed in this section

SETUP FOR AUTOMATED JOYSTICKS.

A unique feature in Cinemix are the two automated joysticks with its Virtual Vision concept of showing you the position of the audio signal when controlled from D&R's PowerVCA automation.

The "Set-up" switch serves actually the same purpose as the ARM switches in the modules.

As soon as the Setup switch is activated the following menu will be shown>

Depressing S1 (Buss) will display the following assignments.

Main busses

Group busses **1.....8**
 9.....16
 17...24

CRM: -10dB		Setup: JS 1
Buss	Formt	SW

Depresing S2 (Format) will display the following selection criteria.

Left, Right

Surround left, Surround Right

Left, Center, Right

L,C,R mono Surround

L,C,R, Stereo srnd

off

The third selection (S3) is the Sub Woofer. The level of the Sub Woofer can be adjusted between off and unity gain with a range of 63 dB in 0.5dB steps. to accomodate any requested level.

ASSIGNING A CHANNEL TO A JOYSTICK

To assign a channel to a Joystick follow the next steps.

- a. depress an ARM switch in a module and be sure that no master routing switch such as L/R, Center, SRND L/R, is assigned at that moment.
- b. Select Joystick 1 or/off Joysttck 2.

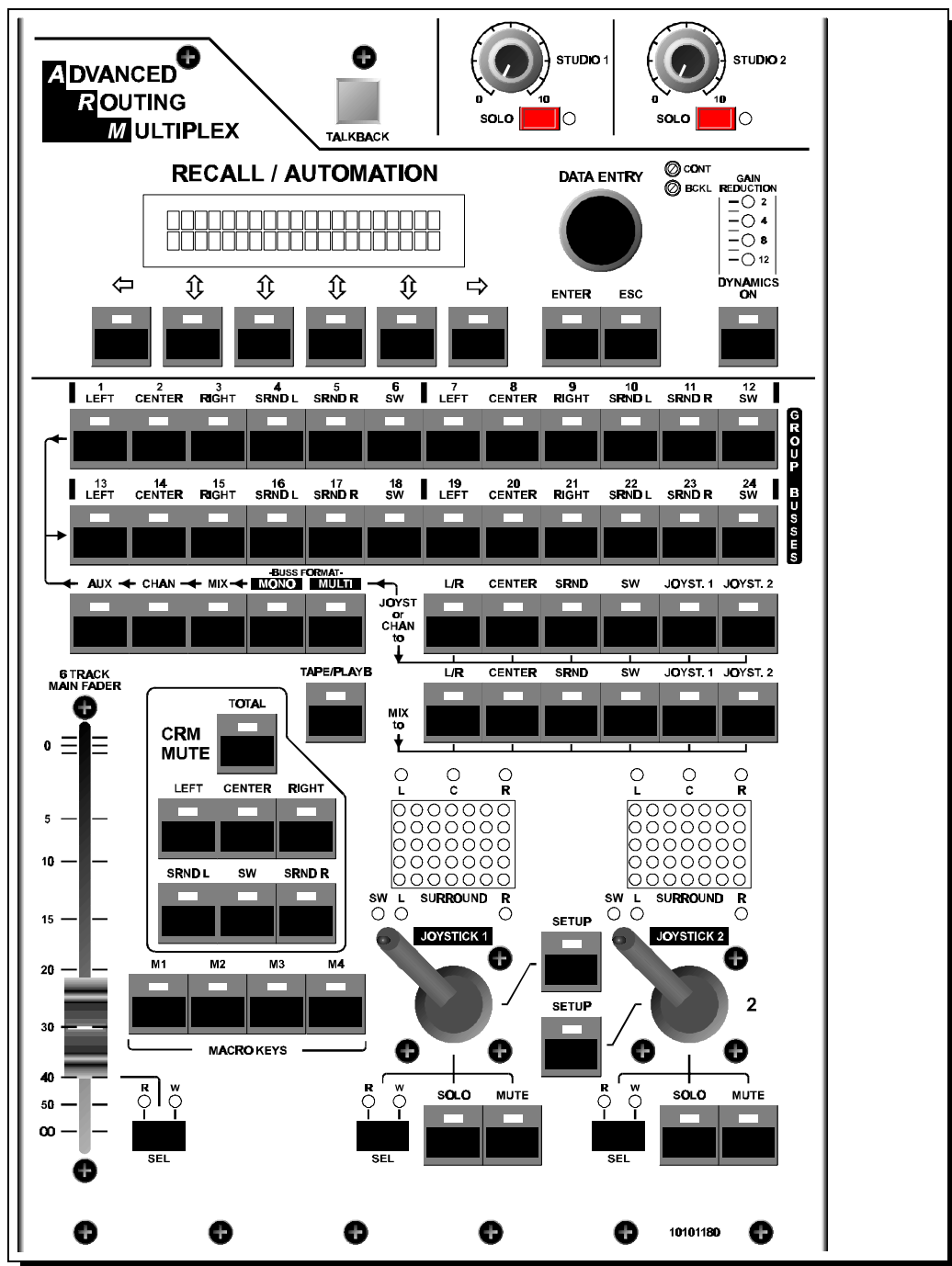
The Virtual Vision matrix will show the panning ranges possible with corresponding assignments.

All movements will be memorized in PowerVCA together with mutes.

A host of possibilities are there to explore, It will take some time to manipulate all the possibilities Cinemix gives you in this area. Features like read and write on the automation screen and Solo and Mute.

2.29 TAPE SWITCH

The tape switch will switch a mono dual input channels' mix section to follow either the group output or the multitrack tape output.



DUAL PATH MONO MODULE DESCRIPTION

3.0 DUAL PATH MONO MODULE - DESCRIPTION

Cinemix's Dual Path mono input module is a basic input / output design whereby all signal flow takes place from the microphone to the multitrack. Each dual path mono module is shipped with **PowerVCA** Automation and a 13 segment LED bargraph meter. The mic/line inputs are in the **CHANNEL** section of the module while the **TAPE** machine outputs are in the **MIX** section. The following sections explain the many functions and features of each section of the dual path input module.

3.1 CHANNEL SECTION

The input section controls all incoming signals from microphone, line, and multitrack outputs. A **48V** phantom power switch for condenser microphones or direct boxes can be silently switched in or out of the circuit. The **Line** switch converts the Channel input from a balanced mic input into a balanced line input. Cinemix has separate electronics for each input. The top knob of the dual concentric **GAIN** control adjusts the mic/line levels in the **CHAN**nel path and the bottom control adjusts the (**tape**) input of the **MIX** path.

When the **GAIN** control is accurately set, it is possible to achieve the very best signal to noise ratio and maximum headroom Cinemix was designed to achieve.

3.2 EQUALIZER SECTION - CHANNEL PATH

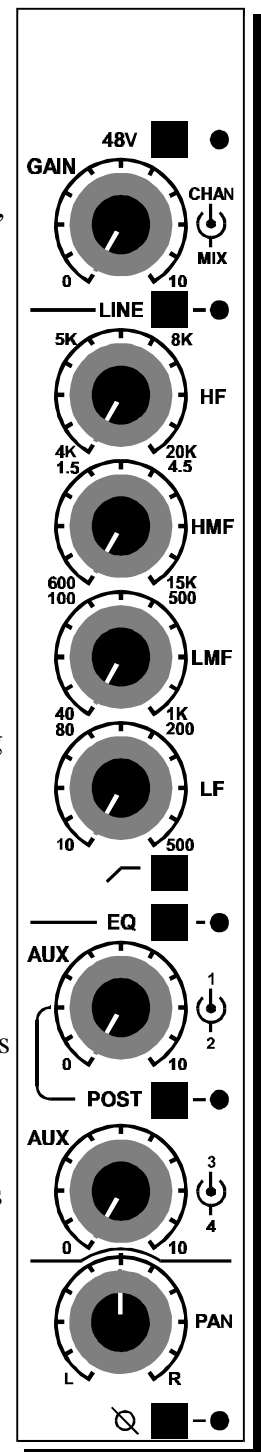
This four-band parametric equalizer is unique in its design. There are four bands, the high and low bands are sweepable frequency, shelving characteristics type with a boost or cut of 16 dB. The two mid bands each sweepable frequency peak/dip type with a boost or cut of 16 dB.

The **HF** (high frequency) section is a variable frequency shelving type, sweepable from 4,000 Hz to 20,000 Hz with a max. boost or cut of 16 dB.

The **HMF** (High / Mid Freq.) section has level and frequency controls with variable frequency ranges from 600 Hz to 15,000 Hz and has a maximum boost or cut of 16 dB. The bandwidth has a Q factor of 1.5.

The **LMF** (Low / Mid Freq.) section has level and frequency controls with variable ranges from 40 Hz to 1000 Hz and has a max boost or cut of 16 dB. The bandwidth has a Q factor of 1.5.

The **LF** (low frequency) section is a variable frequency shelving type, sweepable from 10 Hz to 500 Hz with a maximum boost or cut of 16 dB.



All level controls are center detented making neutral positions easy to establish. All frequency ranges have been carefully selected following extensive examination of all types of music (and noise). Test comparisons of other equalizers helped the D&R design team create an equalizer that sounds very musical, but at the same time, raising the standard in specs and sound quality. Noise and distortion are kept to an absolute minimum.

A **High Pass Filter** in / out switch is fitted to roll off the low frequencies at 100 Hertz.

An equalizer on - off switch is fitted to allow easy comparisons.

3.3 AUX 1 - 4 SECTION

Aux 1 through 4 are 4 dedicated individual aux sends from the CHAN section of the module. **PRE/POST** switching for Aux 1/2 is selected locally on every module with a LED indicator as reminder of the setting.

AUX 3/4 is factory jumpered to be post-CHAN fader.

The PCB allows for a PRE-CHAN setting when desired. Aux 3/4 are sourced always from the CHAN part of the module.

3.4 PANPOT

Cinemix's panpot is built to achieve minimum crosstalk between two selected busses. A center detent with -3 dB attenuation is standard.

3.5 PHASE

The **PHASE** switch below the CHAN pan control is used to reverse the phase of any mike or line input. A successful method of checking for out of phase signals is to press the mono switch on the master section and listen closely to the mix. If an unexpected sound is heard or if something appears to be missing from the mix, press the phase switch on the channel suspected to be in error. If the sound improves, then that channel was out of phase with the others.

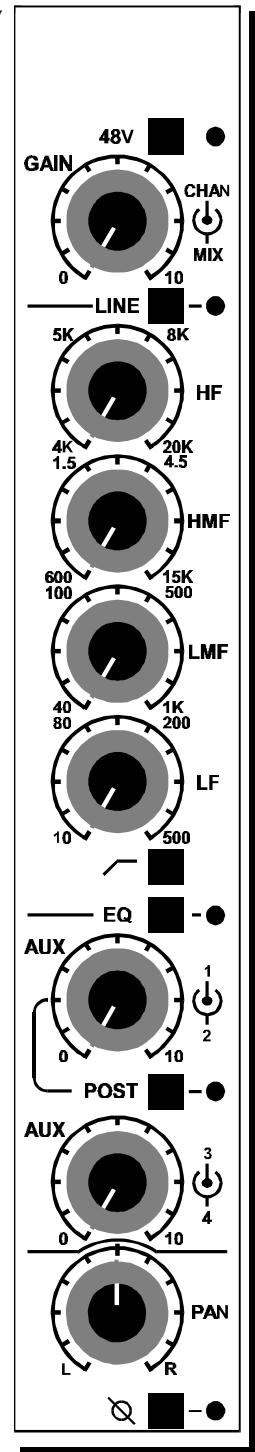
3.6 INSERT

The insert can be found in the patchbay and has ground compensated balanced sends and true balanced returns.

3.7 SEL

The SEL switch determines the automation mode of the automated fader. Either off (no LED's on) Read (R), Write (W) or Update/Trim both Read and Write LED's on.

Note: These functions are only active when PowerVCA is loaded and active on your PC!



3.8 SOLO

The **SOLO** switch has an adjacent LED as an indicator for the solo.

The **SOLO** system has two modes, **PFL** (pre fade listen), **AFL** (after fade listen). Master status switching (located in the master section) selects the **PFL or AFL** mode for the entire console (except for the Aux master solo's).

Activating the solo switch in the **PFL** mode will send the prefader signal of the Channel section to the CRM speakers.

In the **AFL** mode (non destructive), the post channel panpot signal is heard, and all other modules are not muted within the stereo mix buss

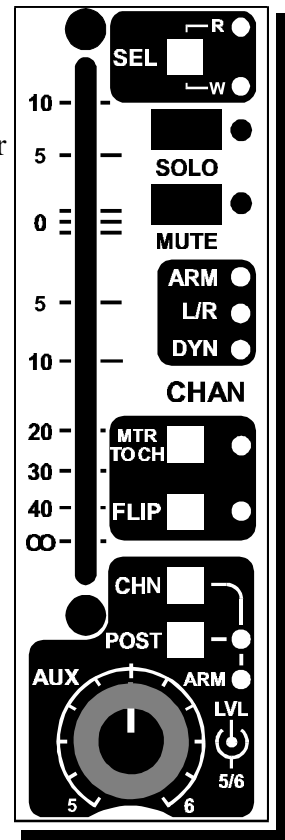
3.9 MUTE

The **MUTE** system is a special soft-muting circuit, click-free and associated with the automation circuitry.

A **MUTE** indicator is fitted alongside the **MUTE** switch.

3.10 FADER

The 60 mm linear fader controls the internal VCA. An optional Motorfader can be fitted which follows the VCA control voltage. Today's VCA's have very low distortion and very impressive specs, when the VCA is in circuit, noise is kept to an absolute minimum and the ultra low distortion is of the second harmonic type responsible for a natural sound.



3.11 CHANNEL / MIX STATUS SECTION - USING ARM

There are four white sections with LED's that indicate when the **ARM** system is active and let you know what is routed. The upper ARM status section has three LED's; yellow for activated routing assignments, Green for assigned L/R busses, and another green for assigned dynamics to that section of the module.

These three function indicators are associated with the input section

Pressing the **ARM** switch shows you in the Cinemix's master section what digital buss is connected to the **CHAN**nel (or **MIX**) path. If you would like to buss the **CHAN**nel and **MIX** sections from the same module - to the same busses - at the same time, there is no problem.

The **L/R** LED indicates that the **CHAN**nel (or **MIX**) path is routed to the main left/right mix busses.

MTR CHAN SWITCH

The **MTR CHAN** LED indicates that the channel meter (which normally follows the tape switch) is switched to follow the input (mic or line) section.

On top of this it is possible to jumper the next possibilities.

Meter follows Chan pre or post fader

Meter follows MIX pre or post fader

INPUT FLIP SWITCH.

When this LED is on, the mic or line signals are directed to the **MIX** path of the module and the tape signal is connected to the **CHAN**nel path of the module.

AUX ARM

The Auxes 5/6 can be assigned to the 24 busses through the ARM system. The yellow status LED indicates when **AUX 5-6** is assigned to one or more of the digital routing busses

Note: When Aux 5/6 are assigned to the routing busses, it is not possible to use the busses for anything else

The next two white indicator sections are for **CHAN**nel and **MIX**.

Since both are identical, we will discuss only the **CHAN**nel section. The **ARM** LED lights when the **CHAN**nel (or **MIX**) path is assigned to one or more digital routing busses.

DYNamics

When the **green DYN** LED is on, an optional compressor, limiter, gate, or other effects / signal processors will be inserted into the signal path. The intensity of the LED is modulated by the activity of the inserted dynamics processor.

The optional **DYN**amics' master controls are the same controls used for the **RECALL/AUTOMATION** SECTION

Routing AUX 5 - 6 to the Multitrack Busses.

Step 1: Press **ARM** on the module you would like to route auxes from.

Step 2: Press the red AUX switch below the buss switches in the master section

Step 3: Press the Buss switch or switches you would prefer to buss to.

Step 4: From Cinemix's patchbay, patch the group outputs to your choice of signal processing equipment's inputs.

3.12 MIX PATH

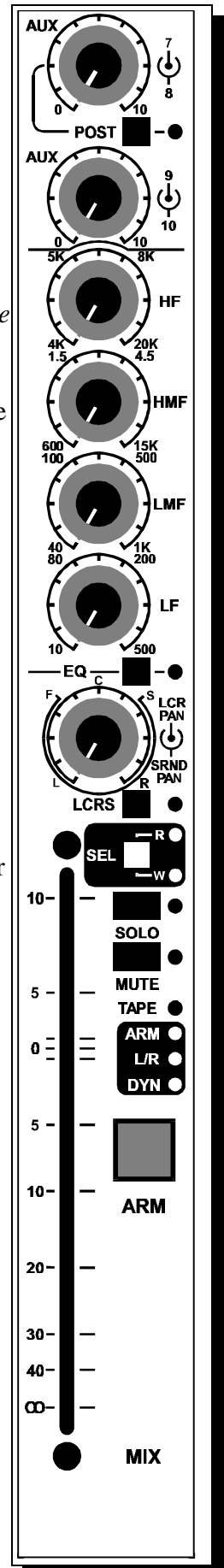
The **MIX** section is the second signal path in the Cinemix dual path mono module. It has a full 4 band eq, up to 6 aux sends, insertable LCRS panpot, and Mute & Solo switches. In record mode (non activated input flip), the **MIX** section is fed by either the tape return or group output (a master tape switch selects either one of the above).

AUX SENDS - MIX PATH

Aux 5 & 6 were designed with a level and pan to for instance build up a stereo mix for headphones. The Auxes 5/6 can be sourced from either the **CHAN** section or the **MIX** section. Pre/post slection is possible and assigning to the 24 busses is also possible as earlier discussed.

Aux 7 through 10 are dedicated aux sends for the **MIX** path.

Aux 7/8 can be selected pre/post MIX fader. Aux 9/10 are factory set post Mix fader but can be jumpered to be pre MIX fader if desired.



Equalizer Section - MIX path

This four-band parametric equalizer is unique in its design.

There are four bands, the high and low are sweepable frequency with shelving characteristics with a boost or cut of 16 dB and the two mid bands each sweepable with a boost or cut of 16 dB with a fixed very musical bandwidth.

The **HF** (high frequency) section is a variable frequency shelving type, sweep-able from 4,000 Hz to 20,000 Hz with a maximum boost or cut of 16 dB.

The **HMF** (High / Mid Freq.) section has level and frequency and bandwidth controls with variable frequency ranges from 600 Hz to 15,000 Hz and maximum boost or cut of 16 dB.

The **LMF** (Low / Mid Freq.) section has level and frequency and bandwidth controls with variable frequency ranges from 40 Hz to 1000 Hz and maximum boost or cut of 16 dB.

The **LF** (low frequency) section is a variable frequency shelving type, sweepable from 10 Hz to 500 Hz with a maximum boost or cut of 16 dB.

All level controls are center detented making neutral positions easy to establish. All frequency ranges have been carefully selected following extensive examination of all types of music (and noise). Test comparisons of other equalizers helped the D&R design team create an equalizer that sounds very musical, but at the same time, raising the standard in specs and sound quality. Noise and distortion are kept to an absolute minimum. An equalizer in - out switch with LED indicator is fitted to allow easy comparisons.

3.13 LCRS PANPOT

Cinemix's panpot is built with special circuitry to allow for left, Center, Right, and stereo Surround panning. The upper control knob pans between Left and Right. The lower control knob of the dual concentric pan-pot lets you move the input signal from front to rear. In the rear position the signal can be panned between the surround left and right monitor.

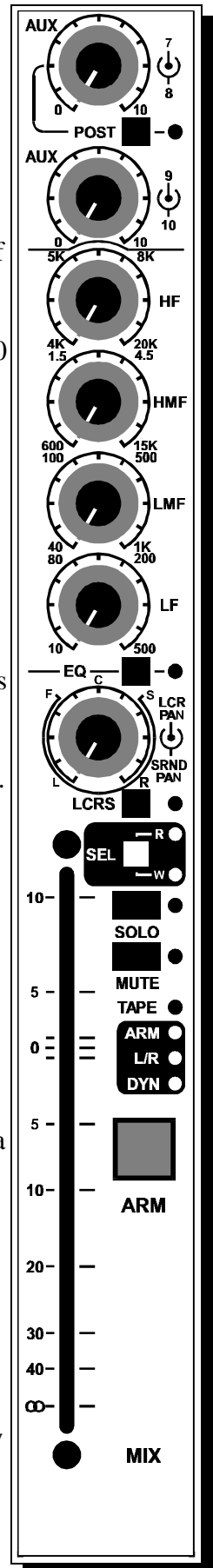
A LCRS switch toggles between a normal pan-pot with -3dB centre and a true LCRS pan-pot allowing for complex positioning of sound in every module.

Panning from left to right selects between Joystick 1 and/or 2 when assigned in the master section to the responding module.

NOTE: THE LCRS SWITCH HAS TO BE IN THE UP POSITION (OFF)

INSERT

The insert can be found in the patchbay with separate send and return tiny telephone jacks.



SEL

The **SEL** switch determines the automation mode of the automated fader. Either off (no LED's on) Read (**R** LED on), Write (**W** LED on) or Update/Trim both **Read** and **Write** LED's on.

SOLO

The **SOLO** switch has an adjacent LED as an indicator for the solo being active. The **SOLO** system has two modes, **PFL** (pre fade listen), **AFL** (after fade listen). Master status switching (located in the master section) selects the **PFL** or **AFL** mode for the entire console (except for the Aux master solo's). Activating the solo switch in the **PFL** mode will send the prefader signal of the Channel section to the CRM speakers. In the **AFL** mode (non destructive), the post channel panpot signal is heard, and all other modules are not muted within the stereo mix buss

MUTE

The **MUTE** system is a special soft-muting circuit, click-free and associated with the automation circuitry. A **MUTE** indicator is fitted alongside the **MUTE** switch.

FADER

The 100 mm linear fader controls the internal VCA. An optional Motorfader can be fitted which follows the VCA control voltage. Today's VCA's have very low distortion and very impressive specs, when the VCA is in circuit, noise is kept to an absolute minimum and the ultra low distortion is of the second harmonic type which is responsible for a natural sound.

3.14 CHANNEL & MIX PATH INPUTS / OUTPUTS

All mic inputs are interfaced via female XLR 3 pin connectors located on the module backpanels. All other module inputs and outputs are located in the patchbay and accessible via 25 pin sub "D" connectors on the back of the patchbay.

THE DUAL STEREO RETURN MODULE

4.0

Cinemix's Dual Stereo Module is one of the most comprehensive products the D&R design team has developed yet. Two completely separate stereo modules (four inputs) are fitted on the same metal strip. Although designed for effects returns, this module can be used for stereo keyboards, drum machines, stereo tape machines, or any other device needing both inputs on one fader. The maximum number of stereo input modules both frames can accept is 5. These five stereo modules are normalled to signal processor outputs in the patchbay.

4.1 Input section

The input section consists of two stereo gain controls. The gain control is a concentric dual pot (with two knobs) used to adjust the gain of two line amps, stereo **A** and stereo **B**.

The adjustment range is from -20dB to +20dB.

The Mono A and Mono B switches sum the left right signals.

4.2 Equalizer section

The D&R design team opted for a four band fixed frequency equalizer on the STEREO B input path. The selected frequencies produced the most musical sounding results.

HF 10kHz

The **HF** (high frequency) section has shelving characteristics with a boost or cut of 16dB at a fixed frequency of 10kHz.

HMF 5kHz

The **HMF** (high mid frequency) section has bell curve characteristics with a boost or cut of 16dB at a fixed frequency of 5kHz.

LMF 250Hz

The **LMF** (low mid frequency) section has bell curve characteristics with a boost or cut of 16dB. This band has a fixed frequency of 250 Hz.

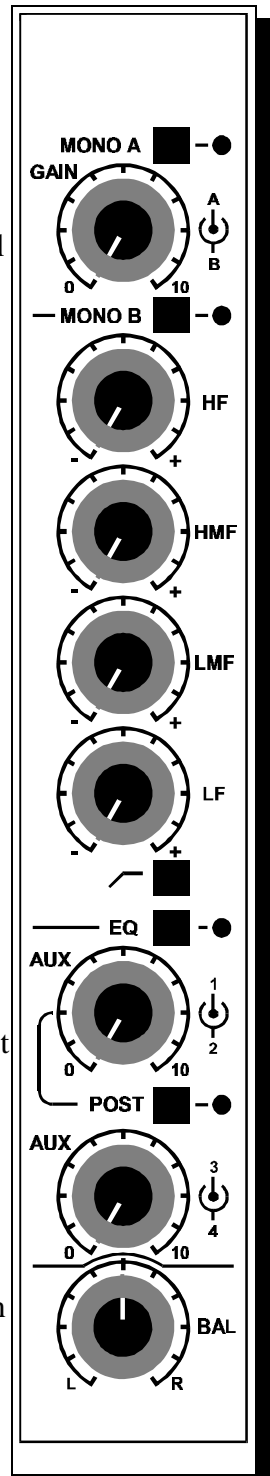
LF 60Hz

The **LF** (low frequency) section has shelving characteristics with a boost or cut of 16dB at a fixed frequency of 60Hz.

All level controls are center detented making neutral positions easy to establish. All frequency ranges have been carefully selected following extensive examination of all types of music (and noise). Test comparisons of other equalizers helped the D&R design team create an equalizer that sounds very musical, but at the same time, raising the standard in specs and sound quality. Noise and distortion are kept to an absolute minimum.

A **High Pass Filter** in / out switch is fitted to roll off the low frequencies at 100 Hertz.

An equalizer on-off switch is fitted to allow easy comparisons.



4.3 AUX Send Section

Aux 1 through 4 are always in the Stereo A path. Aux 1 - 4 are dual concentric controls with 1/3 being the top knob and 2/4 the bottom knob.

Aux 1/2 is switchable pre/post channel fader. Aux 3/4 is always post fader.

Pan control

Just below the Aux section is a stereo pan control. On Cinemix's stereo module, the pan control balances the left and right signals in the stereo image. It has a center attenuation of -3dB,

SEL

The **SEL** switch determines the automation mode of the automated fader. Either off (no LED's on) Read (**R** LED on), Write (**W** LED on) or Update/Trim both **Read** and **Write** LED's on.

SOLO

The **SOLO** switch has an adjacent LED as an indicator for the solo. The **SOLO** system has two modes, **PFL** (pre fade listen), **AFL** (after fade listen). Master status switching (located in the master section) selects the **PFL** or **AFL** mode for the entire console (except for the Aux master solo's).

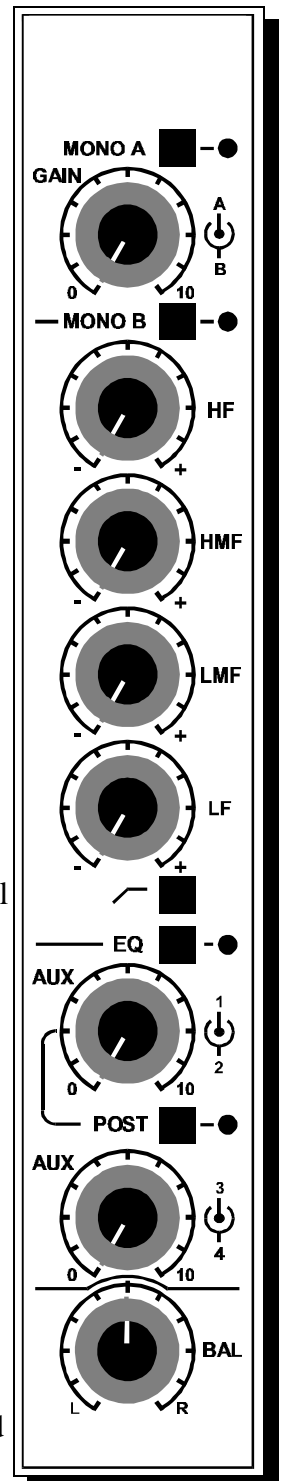
Activating the solo switch in the **PFL** mode will send the prefader signal of the "A" section to the CRM speakers. In the **AFL** mode (non destructive), the stereo post "A" balance signal is heard, and all other modules are not muted within the stereo mix buss

MUTE

The **MUTE** system is a special soft-muting circuit, click-free and associated with the automation circuitry. A **MUTE** indicator is fitted alongside the **MUTE** switch.

FADER

The 60 mm linear fader controls the internal VCA's. An optional Motorfader can be fitted which follows the VCA control voltage. Today's VCA's have very low distortion and very impressive specs, when the VCA's are in circuit, noise is kept to an absolute minimum and the ultra low distortion is of the second harmonic type which many engineers and producers like.

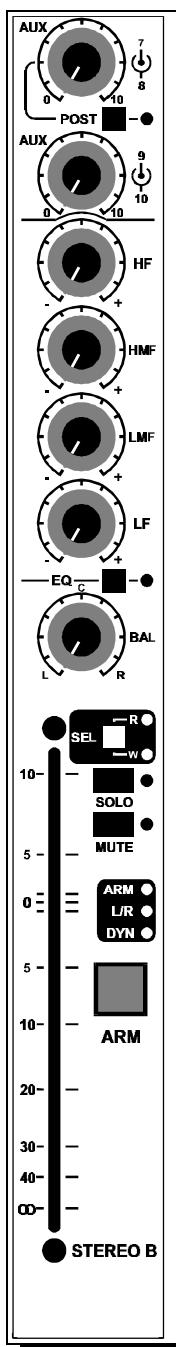


4.4 STEREO A / B STATUS SECTION - USING ARM

There is a white section with LED's that indicate when the **ARM** system is active and let you know what is routed. The section has three LED's; yellow, green and green. These three function indicators are associated with the total modules routing status. When one of these leds are on, it indicates that in the master ARM section signals are routed. The local ARM switch, when pushed, gives information in the master section what is routed to what output.

MTR TO A CHAN

The **MTR TO A** switch and LED allows for changing the meters inputs to follow the Stereo A input signals (normally following the Stereo B inputs).



4.5 AUX 5/6

AUX 5/6 can be sourced from either the Stereo B section or the Stereo A section by its local source switch labelled "A". Aux 5/6 is a stereo Aux send with level and pan control, switchable pre/post the stereo faders from stereo A or B section.

On top of all these features it is also possible to route the outputs of this stereo Aux send to the busses via the ARM system. The ARM LED indicates when **AUX 5/6** is assigned to one or more of the digital routing busses.

AUX 7-10 Send Section

Aux 7 through 10 are always in the Stereo B path. Aux 7 - 10 are dual concentric controls with 7/9 being the top knob and 8/10 the bottom knob.

Aux 7/8 is switchable pre/post Stereo B fader. Aux 9/10 is always post stereo B fader.

4.6 Equalizer section

The D&R design team opted for a four band fixed frequency equalizer on the STEREO B input path. The selected frequencies produced the most musical sounding results.

HF 10kHz

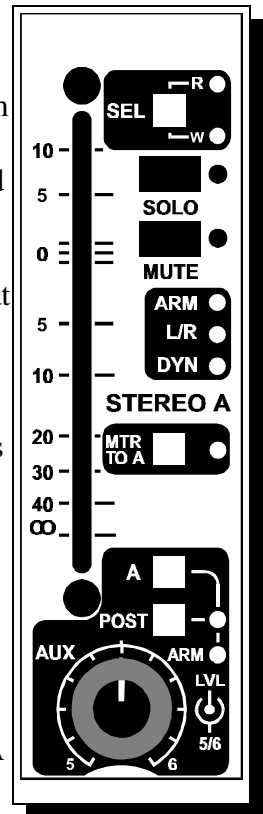
The **HF** (high frequency) section has shelving characteristics with a boost or cut of 16dB at a fixed frequency of 10kHz.

HMF 5kHz

The **HMF** (high mid frequency) section has bell curve characteristics with a boost or cut of 16dB at a fixed frequency of 5kHz.

LMF 250Hz

The **LMF** (low mid frequency) section has bell curve characteristics with a boost or cut of 16dB. This band has a fixed frequency of 250 Hz.



LF 60Hz

The LF (low frequency) section has shelving characteristics with a boost or cut of 16dB at a fixed frequency of 60Hz.

All level controls are center detented making neutral positions easy to establish.

All frequency ranges have been carefully selected following extensive examination of all types of music (and noise). Test comparisons of other equalizers helped the D&R design team create an equalizer that sounds very musical, but at the same time, raising the standard in specs and sound quality. Noise and distortion are kept to an absolute minimum.

4.7 Pan control

Just below the Aux section is a stereo balance control. On Cinemix's stereo module, the pan control balances the left and right signals in the stereo image. It has a center attenuation of 3dB.

SEL

The **SEL** switch determines the automation mode of the automated fader. Either off (no LED's on) Read (**R** LED on), Write (**W** LED on) or Update/Trim both **Read** and **Write** LED's on.

SOLO

The **SOLO** switch has an adjacent LED as an indicator for the solo.

The **SOLO** system has two modes, **PFL** (pre fade listen), **AFL** (after fade listen). Master status switching (located in the master section) selects the **PFL** or **AFL** mode for the entire console (except for the Aux master solo's).

Activating the solo switch in the **PFL** mode will send the prefader signal of the "B" section to the CRM speakers. In the **AFL** mode (non destructive), the post "B" balance signal is heard, and all other modules are not muted within the stereo mix buss

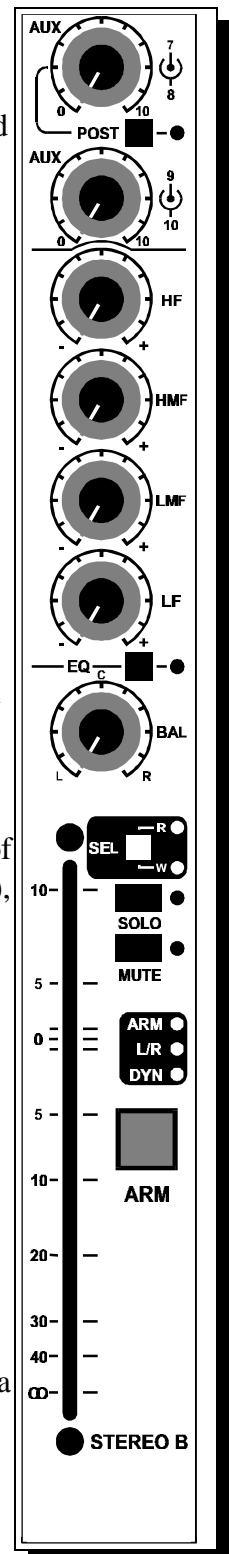
MUTE

The **MUTE** system is a special soft-muting circuit, click-free and associated with the automation circuitry. A **MUTE** indicator is fitted alongside the **MUTE** switch.

FADER

The 100 mm linear fader controls the internal VCA's. An optional Motorfader can be fitted which follows the VCA control voltage.

Today's VCA's have very low distortion and very impressive specs, when the VCA's are in circuit, noise is kept to an absolute minimum and the ultra low distortion is of the second harmonic type which many engineers and producers like.



4.8 STEREO B STATUS SECTION - USING ARM

There is a white section with LED's that indicate when the **ARM** system is active and let you know what is routed. The section has three LED's; yellow, green and green. These three function indicators are associated with the total modules routing status. When one of these leds are on, it indicates that in the master ARM section signals are routed. The local ARM switch, when pushed, gives information in the master section what is routed to what output.

DYNamics

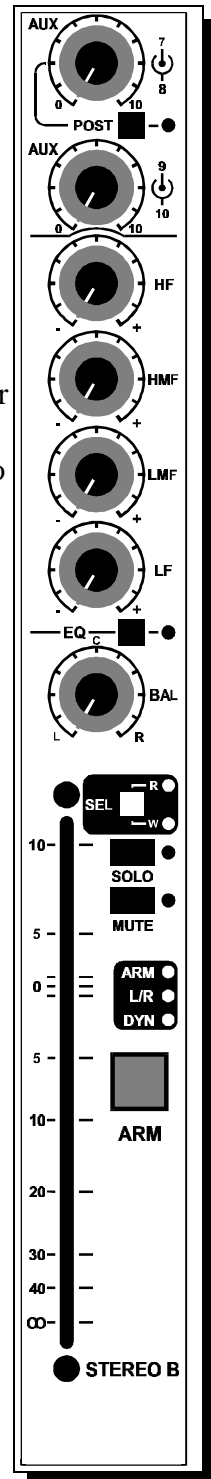
When the **DYN** LED is on, an optional compressor, limiter, gate, or other effects / signal processors will be active in the signal path.

The modulation of the LED indicates the amount of processing applied to this module.

The master control of the dynamics is part of the recall/automation section's menu.

STEREO A/B ARM SWITCH.

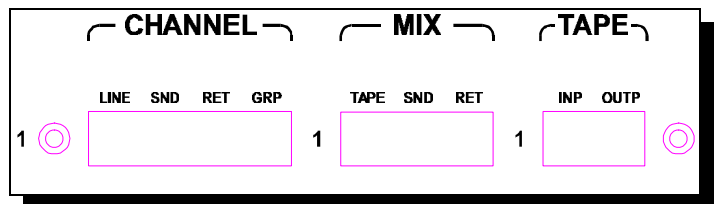
The **ARM** switch assigns a module to the **ARM** section in the master where assignments can be made and stored. Pressing the **ARM** switch shows you in the Cinemix's master section what digital buss is connected to the **Stereo A and B** path. If you would like to buss the **A** and **B** sections from the same module - to the same busses - at the same time, there is no problem. Bussing to more than one pair is also possible.



PATCHBAY SECTION

5.0 Patchbay description

The recessed patchbay section is built around Bantam type tiny telephone jack sockets. Cinemix's patchbay is completely modular and can be expanded as your budget allows. If you order a large frame down-loaded with less modules, the patchbay can be expanded as you order more input modules or ordered complete. All master inputs / outputs and 256 tie lines (for signal processing) are standard when you order the patchbay. The entire patchbay is wired balanced and internally "star-ground" wired. Each row of CHANNEL and MIX patch points are followed by the TAPE inputs and outputs.



5.1 Patchbay - points

Channel patch points from left to right are: **Line** input - **CHAN**nel insert Send & Return - **Grp**

(group) output - **MIX** (from tape) input - and **Mix** insert Send & Return. The tape input and outputs are normalized to Group outputs and MIX inputs.

The master section contains fifteen rows of Bantam type jacks.

Row 1: Left/Right master outputs, insert send & returns, and Osc/TB.

Row 2: Tape or mastering machines A, B, C, D inputs normalled to left and right outputs.

Row 3: Tape or mastering machines A, B, C, D, outputs left & right inputs.

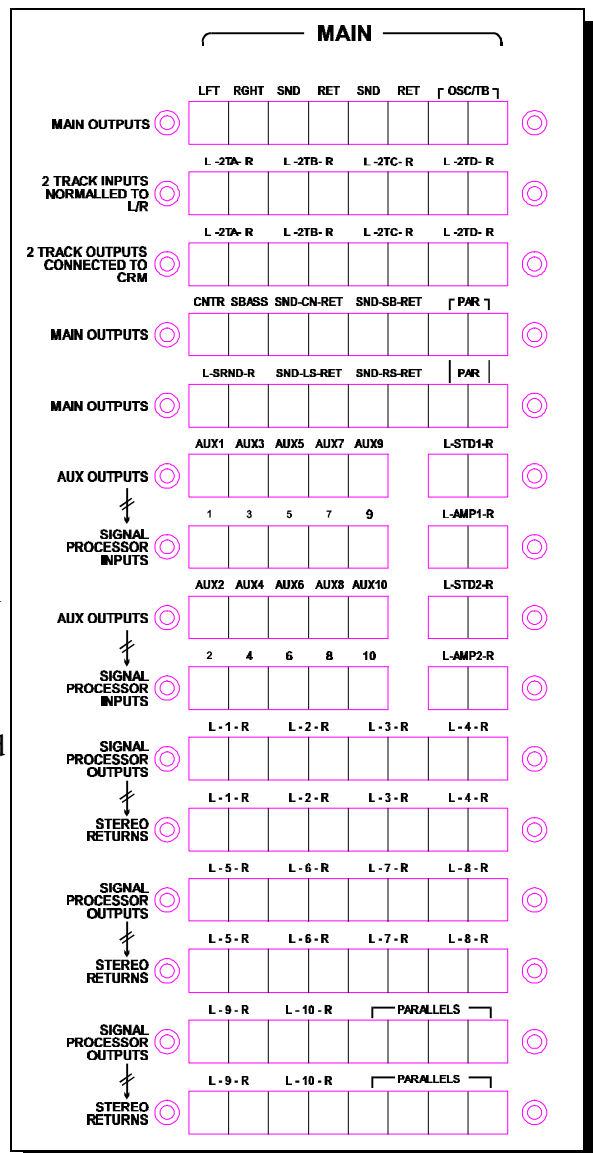
Row 4: Main outputs Center/Subbass, Send/return of Center, Subbass, and two parallels.

Row 5: Main outputs Left/Right Surround with inserts, and two parallels.

Row 6: Aux 1/3/5/7/9 and Studio 1 left/right.

Row 7: Signal processor inputs (normalled to Aux1/3/5/7/9 outputs) and Studio amps inputs left/right (normalled to Studio 1 outputs).

Row 8: Aux 2/4/6/8/10 outputs normalised to signal processor inputs (on the next row), Studio 2 left/right outputs (normalised to AMP2 inputs).



Row 9: Five signal processor inputs normalized to Aux 2/4/6/8/10 outputs, and Studio amp2 inputs (normalized to Studio2 outputs).

Row 10: Four stereo signal processor outputs normalized to the stereo return modules.

Row 11: Four stereo return inputs (normalised from signal processor outputs).

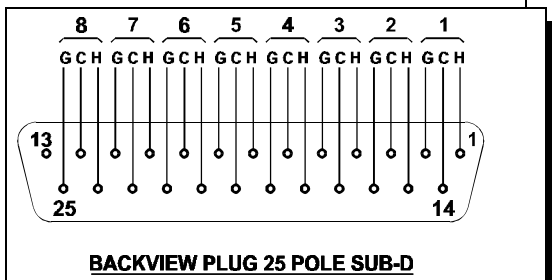
Row 12: Four stereo signal processor outputs 5-8, internally normalised to dual stereo return modules.

Row 13: Stereo retrun 5 to 8 inputs (normalized from signal processor outputs 5-8).

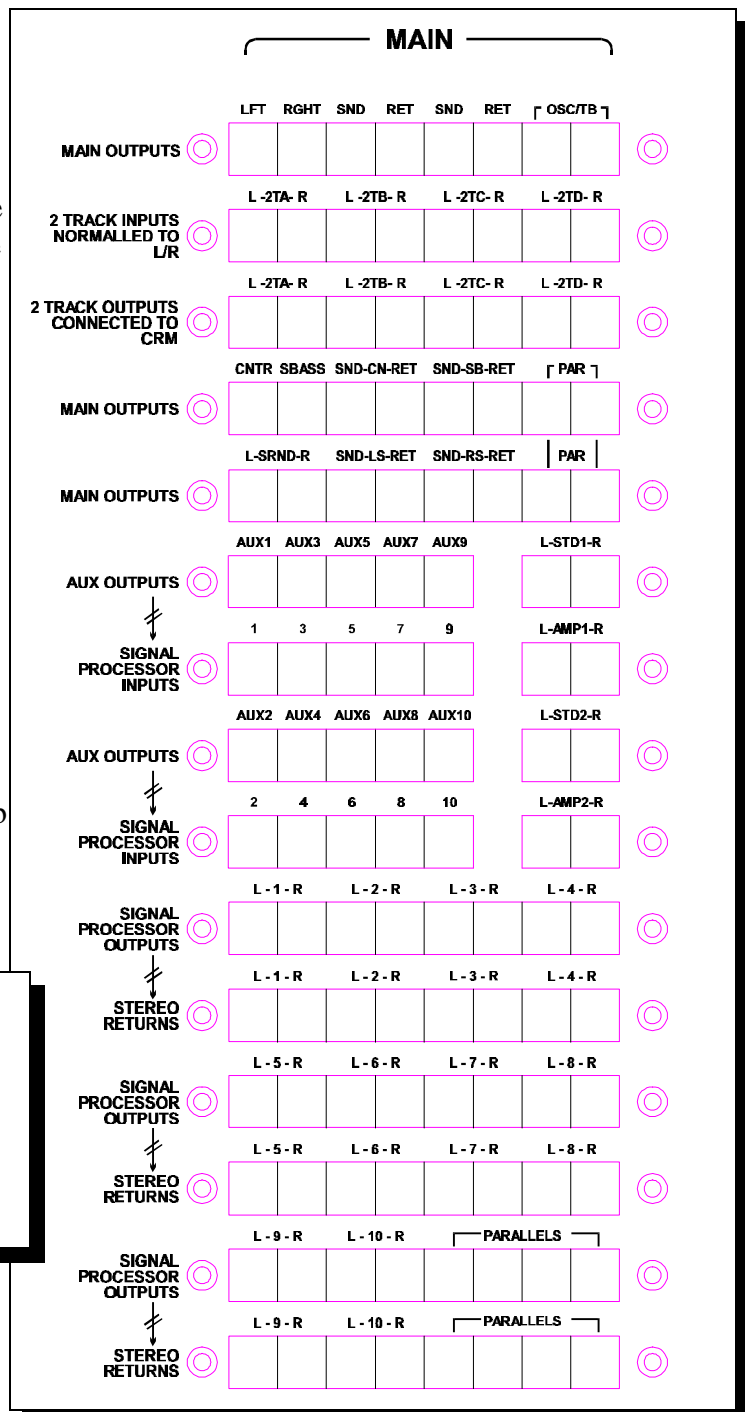
Row 14: Stereo signal processor outputs 9-10 plus 4 paralleled jack sockets

Row 15: Stereo returns 9-10 normalised to signal processor outputs 9/10

Cinemix has 256 tie lines mounted in 32 rows of eight. The tie lines are patch- ing the inputs and outputs of any signal processing equipment. For ease of use, all outputs are blue sockets, and all inputs are black sockets. The blue and black jack sockets can be interchanged for use with any equipment other than normal stereo (two inputs and two outputs) devices. All interfacing with external machines, effects processors, or amplifiers can be accomplished via the connector panel (rear of master section) and via the 25 pin sub "D" connectors on the patchbay connector panel. The wiring from the 25 pin sub "D" connector to the jack sockets are identical for inputs and outputs.



G=Ground
C=Cold (out of phase)
H=Hot (in phase)



INSTRUCTIONS FOR OPERATION

6.0 Instructions for operation

The Cinemix is designed to be the perfect answer for Post Production, multitrack and MIDI studios. In order to get more familiar with the Cinemix, we shall discuss the entire recording process and divide it into five basic sequences. Sequence 1 through 4 are for the more conventional recording studios, and sequence 5 is for the MIDI studio.

1. The session - Recording from microphone or line input onto the multitrack machine. This could be from one or more channels at a time.
2. The playback - In this mode you would listen to what has been recorded on the multitrack machine.
3. The overdub - Overdubbing is listening to already recorded tracks and recording on empty tracks until all tracks are filled.
4. The remix - Playing of all recorded tracks together with signal processing equipment and all that is necessary to create the final mixdown.
5. The MIDI or Virtual Tracking - Programmed keyboards, drum machines, reverbs, effects, any singing and who knows what else, all at the same time direct to your Dat Machine, two track master machine, or cassette deck.

6.1 The Tracking Session

This is normally the beginning of a project. All input channels are placed in the mic mode by leaving the line switch in the up position if the microphone input is to be used in this channel. Phantom powering is applied if necessary. The EQ switch should be in the up position unless you require EQ on that channel signal. The signal flows through the Channel fader and is available postfader to be routed by way of the ARM system feeding the input to your multitrack recorder. The LED bargraph reads the outgoing signal if the master Tape switch is in its off state.

Microphone / Line Gain

The amount of gain required may depend on the type of microphone being used, the sound pressure level, and the distance between the sound source and microphone. When the line switch is activated, the same (upper) gain control varies the gain of the separate electronics for the balanced line input.

The "phase" switch affects both mike and line inputs. After plugging in a mike or line signal, depress the channel solo switch alongside the channel fader you are setting, set the solo status switch to pfl in the master section, then turn the gain control (of that channel) clockwise until a "0" output level is reached on the master led bargraph/VU meters. Now slide up the channel fader to "0". Now switch the solo out. If the signal source gets louder or softer, it may be necessary to re-check this setting.

The volume will also fluctuate if you boost or cut the equalizer section.

Monitoring with the Cinemix series, you are able to monitor your multitrack by way of the separate MIX section. The MIX section of the dual path module allows you to have two usable inputs, both with EQ, both being able to send to the aux. busses, both with their own volume control, panpots, mutes and solos, and able to be routed at the same time.

Multiple Modules Assigned to One or Two Tracks

When more than one microphone or line signal has to be recorded on a single track or in stereo on two tracks, a submix facility is required. This can be done easily on the CINEMIX by way of the internal subgroup amplifiers located on every channel module and controlled by the ARM system.

Simply route to one of the 24 subgroups by activating routing switches in the master's ARM section on as many input modules as required. Decide on which track you wish to record these signals and activate the related number. The channel metering will show the subgroup level which can be changed overall by applying a PowerVCA's subgroup fader. In order to monitor these tracks on the modules, the master tape switch should be in the off position for monitoring pre-tape (console out) and in the On position for monitoring post-tape (master tape switch lites).

Insert Channel / Group

For high dynamic range types of inputs, a signal processor such as a compressor / limiter can be inserted in the channel insert or in the MIX insert or activate the optional Dynamics package.

Headphone (Cue)

During recording it is essential that the talent hears an independent mix of what the engineer and producer are hearing. Headphone mixes are usually derived from pre-fader auxiliaries.

In the CINEMIX the Aux 1/2 and Aux 7/8 are ideal for this purpose.

The best way to build a mix for the headphones is to have the MIX section of the dual line module feed Aux busses 7/8. When there is limited time to set up a headphone mix, give the talent the CRM mix (L/R) in the Control Room section of the master modules and build up an independent headphone mix on aux. 7/8 when time allows.

Effect Sends

All unused Aux. sends can be used to send signals to signal processors such as the D&R "Qverb" 16 bit digital reverb, effects processors, and digital delays. The aux. sends are usually post-fader in order that the right balance between untreated and treated signals is maintained however, it is possible to switch to pre-fader.

Effects Returns

In the modern recording or MIDI studios of today, there is a demand for many effect returns and inputs for MIDI related gear.

For that reason D&R has designed the Cinemix with stereo effects return modules. See section 4.0 of this manual for a complete description of this module.

Any unused channel or mix input can also be used for returning effects. Every channel can accept two returns with equalization and aux. send capabilities.

6.2 The Playback session

Multitrack playback. The Cinemix gives you a convenient way of monitoring your multitrack recorder. Switch your master TAPE switch to tape.

Now the tape outputs are feeding the MIX path and you can adjust the amount of signal you desire and pan it within the stereo image. Auxiliary sends and equalization can be inserted in both signal paths whenever needed.

Control over this processing is carried out by independent solo / mute systems in both signal paths.

6.3 The Overdub session

Multitrack synchronizing. Overdubbing is the process of building up a recording track by track while listening to previously recorded tracks.

The Cinemix has an in-line monitor for each track of the recorder making it easy to overdub. Connected to the MIX section of the dual path module, you select the master TAPE switch to follow the tape machine and do all your sync switching from the tape machine or remote.

The headphone mix is on the aux. send 1/2 or 7/8 busses. Aux 7 & 8 should get their signal from the MIX section. It is best to activate aux. 7/8 to pre fader at anytime you're using Aux 7/8 for a headphone mix.

6.4 The Remix session

Remix is the process of combining all recorded tracks with (keyboards and drum machines for MIDI) signal processing and sending the mix to a two track master machine, DAT machine, or cassette recorder. On the dual path module your multitrack is connected to the MIX path. This routes the tape return to the MIX input and leaves the mike/line inputs to the channel section of the module. At this point you can use either a mike or line input in the channel section which will feed the stereo mix buss. This will give you two inputs per module in the final mix. You can activate the desired EQ on the channel or Mix path. The incoming signals can be routed to the stereo mix buss via the ARM system in the channel assign section. VCA sub groups can be made up (as required) in the same way as during recording. Aux sends 7 - 10 can get their signal from the MIX section and Aux 1 to 4 from the channel or MIX path with global pre/post switching. Aux sends 5 / 6 get their signal from the channel section in the pre or post fader position.

6.5 The MIDI or Virtual session

In most MIDI studios there will be an eight-track rather than a sixteen or twenty four track tape machine. The majority of music production is programmed on a sequencer using MIDI keyboards, sound modules, drum machines, or other MIDI related equipment.

Therefore, you will only require tape tracks for vocals and those instruments not adequately reproduced on today's keyboards. If there is a multitrack recorder in the MIDI studio, one of the tracks would be used to record a time code (SMPTE or MIDI code). This will allow your sequencer to keep keyboards, drum machines, and other MIDI equipment synchronized.

Cinemix was designed with the digital or analog multi-track and MIDI studio in mind. In today's medium to large MIDI studio, there is a need for as many as 100 inputs to be used for everything from tape tracks to keyboards and drum machines. For this reason, the Cinemix, when fitted with both Dual Path modules and stereo return modules, can net over 106 inputs in the virtual track session or mix down.

6.6 Surround mixing

The Cinemix is the perfect mixer for laying down surround tracks.

As already mentioned mixing down on 4 tracks (Pro-logic standard) is very easy. Use the Left/Right and Center outputs and the Surround left or right output which both give the same signal when the Encoder is on.

These signals are fed to the encoder unit by way of the 25 pole sub D connector and the stereo outputs are fed back into the mixer for checking purposes.

By depressing the Encoder Active switch the four output signals will be fed to the external Encoder and not to the 4 CRM outputs anymore.

At that very moment the stereo output of the Encoder is fed to the main CRM monitors. The Center and Surround monitors will be muted at the same time.

By activating the external Decoder(depress the DECODER ACTIVE switch), the encoded stereo signal will be decoded to full surround and fed to Left/Center/Right and surround monitors for checking.

When the Decoder Active switch is in its up position a full stereo signal (Left total, Right total) will be heard and mono compatibility is checked with the Mono switch.

This easy set-up of surround sound coding and decoding makes a mix-down into surround sound very easy to accomplish.

SIX CHANNEL 5.1 (DTS DOLBY DIGITAL)

When mixing down in 5.1 all signals (Left/Center/Right/ Surround left/Surround Right/ and Sub Bass) are mixed down onto a six channel recorder and monitored back through the 6 Track input (eventually with the CP65 Dolby decoder).

7.0 Installation - Electrical

7.1 Local Electrical Voltage

Before connecting the Cinemix, check the AC supply voltage setting by looking at the sticker on the back of the rack mount power supply. This should be 115V for use in areas with an AC supply between 100V and 120V, and 230V for use in areas with an AC supply between 220V and 240V.

Allow for a 30second wait between switching the Cinemix power supply(s) on or off.

The main fuse is a 6.3 amp fuse with a 250 volt rating (10 amp fuse in America with a 125 volt rating). After replacing a blown fuse with the correct size and rating, turn the power supply on and check the three LED indicators. If you are still missing one or more of the power rails, turn off the power supply and call the D&R Technical Support Department.

NOTE: DO NOT REPLACE THE FUSE WITH ANY OTHER TYPE AS THIS CAN BECOME A SAFETY HAZARD AND WILL VOID YOUR WARRANTY.

7.2 Electrical Wiring

To take full advantage of the excellent signal to noise ratio of the Cinemix, it is necessary to read this part of the manual carefully.

Hum, radio frequency interference, buzzes and instability are often caused by improper wiring and poor grounding. All equipment using three wire ac connectors should have a ground lift adapter on each cable before plugging into the ac outlet. In most cases, the incoming electrical ground is inadequate and a dedicated ground system should be installed for the audio equipment. Your local electric power company will provide you with all local electrical codes and safety regulations.

There are some ground rules to follow. All signals in a recording studio are referenced to ground. This ground must be clean and free of noise. A central place (central to all equipment) should be selected as the "central star ground point" and all grounds should terminate at this point. This point can be a solid metal plate with at least 50 places to hookup all incoming grounds.

This is commonly referred to as a "star ground system".

In some instances electrical contractors will daisy chain ground connections in the AC distribution system. This is not suitable for a studio. Ideally, run a separate ground wire from each piece of equipment to the "central star ground point". The "central star ground point" should be connected to a pair of eight foot ground rods using larger (#10) wire than your equipment ground wires.

Separate and identify "clean" and "dirty" AC outlets. Use clean outlets for audio equipment and the dirty ones for lighting, air conditioning, cola machines etc. Do not intermix these two types of outlets. AC interference can be greatly reduced by using an isolation transformer or some type of balanced ac power device to power outlets. Ground this transformer directly to the "central star point".

After all equipment is connected to the ac power, check with a ohm meter or continuity tester to be sure of no possible chance of ground loops.

All equipment should be physically located as far as possible from the main breaker panel and should be totally isolated from the equipment rack and other equipment so ground loops are avoided. Equipment can be mounted in wood rack rails to avoid ground loops or you can use "HUMFREES"

Now you can run a #12 stranded wire with jacket from each piece of equipment to the "central star ground point". All ground wires should be the same length with a tolerance of plus or minus 10% in order to have the same ground potential everywhere. On the equipment ends of each ground wire you should solder a round hole screw terminal.

Remove a chassis screw from each piece of equipment and file the paint in that area so it will make good contact when you connect the terminal. Next, connect the ground wire terminal to each piece of equipment and connect each wire at the other ends to the "central star ground point".

8.0 Installation - audio

8.1 Interface Power Amps

The Cinemix in its standard configuration can interface with all available equipment. Attention concerning the CRM output must be noted.

This output delivers a nominal +4 dBu level which is sometimes too high for power amps rated at 300mV sensitivity for full output. In some instances an input attenuator at the power amp's input is required to reduce this +4 dBu level by up to 12 dB. Contact the D&R Technical Support Department for details.

NOTE: This alignment is imperative in order to avoid damage to the speakers, or in some cases, damage to the ears of the listener.

8.2 The Initial Hook-Up

First connect the rack-mounted power supplies to the console. All faders, monitors, and effect returns must be in the "down" or "off" position.

In order to ensure the best signal to noise ratio for your system, the next steps should be performed in the order they are printed.

a. Connect the CRM outputs (located on the master section backplate) to the inputs of your control room speaker power amps. Now turn on the console power supplies and then turn your main power amp on and check for any hum, buzz, or interference. Slowly turn the CRM control clockwise until it is wide open while listening for excessive noise. You should only hear a faint "hiss". If everything is O.K., continue. If any hum or excess noise is present, stop and try different ground and shielding arrangements until the system is clean. After checking the main power amp and speakers, check CRM 2 and 3.

b. Before making any other connections, move each monitor fader to the 0 dB position with the master tape switch ON. Connect the multitrack cables to the 25 pole sub-D connectors on the rear of the patchbay, then connect each connector on the tape output of your multitrack. Check for hum or noise after each track has been hooked up. "Hiss" will normally increase slightly with each track. Connect the tape input jacks to the inputs of the multitrack. Carefully listen for excessive noise or hum. If after hooking up an input or output excessive noise or hum is detected, stop and take corrective action before proceeding. Do not hook up all 16, 24, 32, or 48 tracks and then listen. You may need to rewire the entire cable harness to make the system clean.

c. Connect stereo tape recorders (inputs and outputs), stereo headphone amp, and all signal processors.

NOTE: MAKE SURE THAT YOU CHECK FOR HUM OR NOISE AS EACH INPUT OR OUTPUT IS CONNECTED.

8.3 Shields & Grounds of Equipment

The shield of any audio cable connection should be connected at one end only. If not, ground loops and high frequency cross-talk could result. Connect the shield as a general rule to the signal source (output) of anything. In high RF areas it is wise to connect the other end of the shield through a 0.01 microFarad capacitor. This will ground the RF but will not affect audio frequencies.

When connecting balanced microphones, use two conductor shielded audio cable and connect both conductors and the shield at both ends.

When connecting line level cables, use two conductor shielded cable and follow the instructions in the paragraph above. Remember, the shield is not considered to be "ground" and it should only be connected at the output of any device. There are only a couple of exceptions to this rule, one is patch cords and the other is microphone cables. We realize that the correct interfacing of different equipment is difficult, but once properly installed, the system will be clean and noise free.

It is important to understand the term balanced. Balanced does not mean the input or output is professional, the single factor that normally determines whether something is professional is the level of the input or the output. +4 dBu is considered professional. -10 dBv is considered to be consumer level semi-professional. Because many semi-professional tape machines are built to professional specifications, D&R builds into the Cinemix console the ability to interface with both levels.

Note: When checking your new Cinemix console for noise, you will notice that the console is extremely quiet without any external equipment hooked up. D&R is not responsible for the noise you will experience when interfacing other equipment. Since you are use to other consoles when first encountering a D&R, the lack of noise from your Cinemix makes you more aware of noise from other equipment as you hook it up. D&R recommends using the highest quality external equipment with the Cinemix. Because high quality sound must be monitored with speakers and amps with extreme specs, D&R suggests using only the best amps to drive your speakers.

9.0 TROUBLE SHOOTING AND SERVICING

9.1 Troubleshooting

It is essential to study the signal flow chart in paragraph 12.0/13.0 carefully, only then can you hope to isolate problems. By tracing the signal from input to output jacks, it is possible to locate a problem. If for any reason you are unable to isolate a problem, contact the D&R Technical Support Department for advice. If the problem cannot be corrected over the phone, D&R will dispatch a replacement module the same day. Most problems can be found using logical thinking and simply replacing socketed integrated circuits.

9.2 Removing a Module

The Cinemix is a complex piece of equipment and some understanding of its internal layout is necessary before removing a module. An input module has wiring to the LEDbar, master section and backplates. All of these wires must be removed before withdrawing a module from the console.

Each module has computer grade connectors for ease of the disconnect. Turn off the power supply. It is often easier to loosen the modules positioned left and right of the module under test. Remove the LEDbar wiring and remove the metal cover underneath the ledbar front which conceals the screws retaining the module. It is now possible to remove the two module retaining screws and carefully lift the module until the flatcable wiring can be unplugged.

At this point extender cables (if ordered) can be connected. The master sections can be removed from the frame in the same way. Because of the many flat cables on the bottom of the master section, it is wise to remove all retaining screws from all master sections.

This will allow all the master modules to be moved slightly without unplugging all the flat cables. A qualified service technician will be able to service the modules in this way.

9.3 Patchbay - servicing

The patchbay is fully modular and can be serviced after first removing the backplates, then removing the cables attached to the card that needs servicing. The card can be removed after unscrewing two screws that push the patchpanel card downwards.

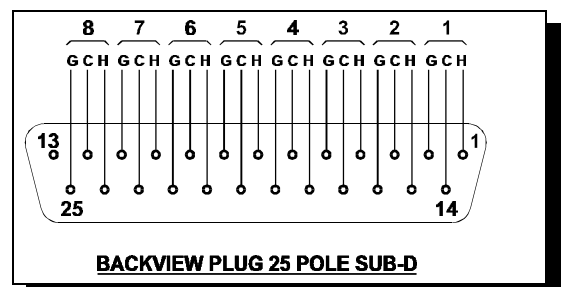
The card will still be connected to the internal star ground system which will need to be unconnected before the card can be removed from the console.

10.0 CONNECTORS

10.1 Master Section

CRM main connector is a 25 pole female Sub D

- | | |
|----|---|
| 1 | = CRM 1 left, in phase |
| 14 | = CRM 1 left, out of phase (ground compensated) |
| 2 | = Ground |
| | |
| 15 | = CRM 1 right, in phase |
| 3 | = CRM 1 right, out of phase (ground compensated) |
| 16 | = Ground |
| | |
| 4 | = CRM 2 left, in phase |
| 17 | = CRM 2 left, out of phase (ground compensated) |
| 5 | = Ground |
| | |
| 18 | = CRM 2 right, in phase |
| 6 | = CRM 2 left out, of phase (ground compensated) |
| 19 | = Ground |
| | |
| 7 | = CRM center, in phase |
| 20 | = CRM center, out of phase (ground compensated) |
| 8 | = Ground |
| | |
| 21 | = CRM surround left, in phase |
| 9 | = CRM surround left, out of phase (ground compensated) |
| 22 | = Ground |
| | |
| 10 | = CRM surround right, in phase |
| 23 | = CRM surround right, out of phase (ground compensated) |
| 11 | = Ground |
| | |
| 24 | = CRM sub bass, in phase |
| 12 | = CRM sub bass, out of phase (ground compensated) |
| 25 | = Ground |



CRM 2 / 3

CRM 2,3

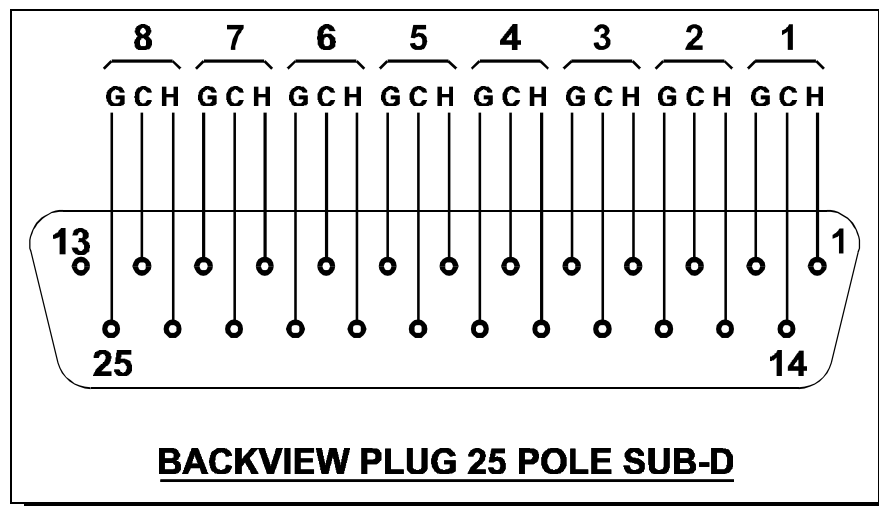
XLR male

- 1=gnd
- 2=in phase
- 3=out of phase (ground compensated)

ENCODER

25 POLE FEMALE SUB D CONNECTOR

1	= To Encoder Left, in phase
14	= To Encoder Left, out of phase (ground compensated)
2	= Ground
15	= To Encoder Right, in phase
3	= To Encoder Right, out of phase (ground compensated)
16	= Ground
4	= To Encoder Center, in phase
17	= To Encoder Center, out of phase (ground compensated)
5	= Ground
18	= To Encoder Surround (mono), in phase
6	= To Encoder Surround (mono), out of phase (ground compensated)
19	= Ground
7	= From Encoder Surround right (mono), in phase
20	= From Encoder Surround right (mono), out of phase (gnd comp.)
8	= Ground
21	= From Encoder Center, in phase
9	= From Encoder Center, out of phase (ground compensated)
22	= Ground
10	= From Encoder Left, in phase
23	= From Encoder Left, out of phase
11	= Ground
24	= From Encoder Right, in phase
12	= From Encoder Right, out of phase
25	= Ground

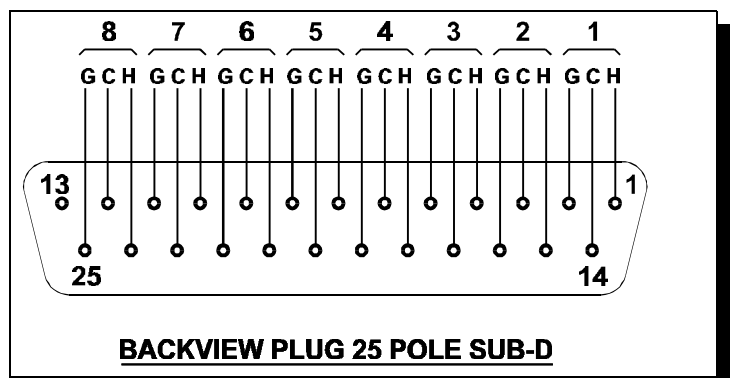


DECODER (from decoder to Cinemix on 25 pole Sub D)

- 1 = From Decoder Left, in phase
- 14 = From Decoder Left, out of phase (ground compensated)
- 2 = Ground**
- 15 = From Decoder Right, in phase
- 3 = From Decoder Right, out of phase (ground compensated)
- 16 = Ground**
- 4 = From Decoder Center, in phase
- 17 = From Decoder Center, out of phase (ground compensated)
- 5 = Ground**
- 18 = From Decoder Surround left, in phase
- 6 = From Decoder Surround left, out of phase (ground compensated)
- 19 = Ground**
- 7 = From Decoder Surround right, in phase
- 20 = From Decoder Surround right, out of phase (ground compensated)
- 8 = Ground**
- 21 = From Decoder Sub Bass: in phase
- 9 = From Decoder Sub Bass: out of phase

DECODER (To decoder from Cinemix on 25 pole Sub D)

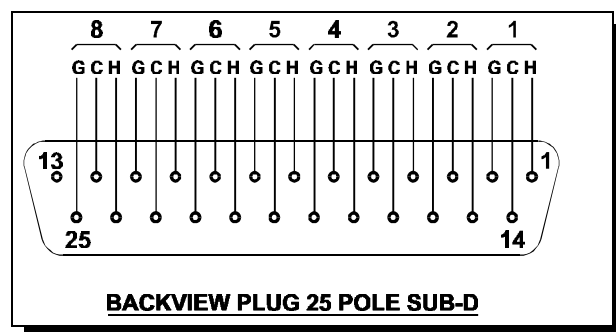
- 1 = To Decoder Left, in phase
- 14 = To Decoder Left, out of phase (ground compensated)
- 2 = Ground**
- 15 = To Decoder Right, in phase
- 3 = To Decoder Right, out of phase (ground compensated)
- 16 = Ground**
- 4 = To Decoder Center, in phase
- 17 = To Decoder Center, out of phase (ground compensated)
- 5 = Ground**
- 18 = To Decoder Surround left, in phase
- 6 = To Decoder Surround left, out of phase (ground compensated)
- 19 = Ground**
- 7 = To Decoder Surround right, in phase
- 20 = To Decoder Surround right, out of phase (ground compensated)
- 8 = Ground**
- 21 = To Decoder Sub Bass: in phase
- 9 = To Decoder Sub Bass: out of phase
- 11 = Ground**



6 TRACK INPUT

25 POLE FEMALE SUB D CONNECTOR

1	= Left, in phase
14	= Left, out of phase
2	= Ground
15	= Right, in phase
3	= Right, out of phase
16	= Ground
4	= Center, in phase
17	= Center, out of phase
5	= Ground
18	= Surround left, in phase
6	= Surround left, out of phase
19	= Ground
7	= Surround right, in phase
20	= Surround right, out of phase
8	= Ground
21	= Sub Bass, in phase
9	= Sub Bass, out of phase
22	= Ground
10	= Not connected
23	= Not connected
11	= Ground
24	= Not connected
12	= Not connected
25	= Ground



MIDI CONNECTORS

MIDI IN	Din Conn.	1= none 2= none 3= none 4= to midi in + 5= to midi in -
MIDI THRU	Din conn.	1= Ground 2= Ground 3= Ground 4= to midi thru + 5= to midi thru -
MIDI OUT	Din conn.	1= Ground 2= Ground 3= Ground 4=Midi Out + 5=Midi Out -

ASYNC. INTERFACE 25 pole sub D

Connection is a one to one flatcable to D&R's own PC interface card

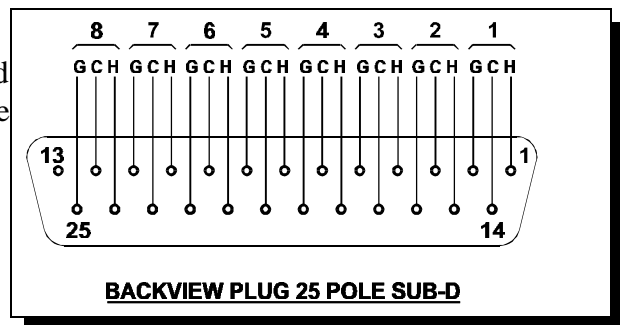
24 TRACK STEMS INPUTS

There are 6 Sub-D connectors on the master back panel that need to be wired to the direct and playback outputs of the Stems recorders.

1-4 are the direct inputs and 5-8 are the 1-4 playback inputs. See the connector at the right side of the page.

Every connector takes care of 4 inputs (dir/playback) Meters can also be

connected on the 4 extra Stems meter sub-D connector outputs.



MIC inputs

XLR 3 pole female	1=Ground 2=Hot (in phase) 3=Cold (out of phase)
-------------------	---

ANALOG POWER

8 pole speakon	-1 = +12 volt (digital)
	+1 = +18 volt
	-2 = -12 volt (digital)
	+2 = -18 volt
	- 3 = Ground digital
	+3 = +48 volt
	-4 = Ground
	+4 = Ground

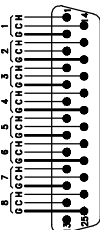
CHASSIS GROUND

Binding terminal connected to chassis.

10.2 PATCHPANEL CONNECTORS

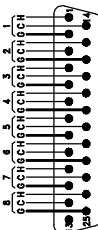
All in/outputs are connected via 25 pole sub D connectors in an identical way, see diagrams

MAIN L/R OSC/TB



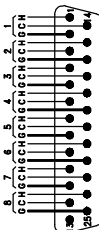
- 1 = MASTER LEFT OUTPUT
- 2 = MASTER RIGHT OUTPUT
- 3 = MASTER LEFT SEND
- 4 = MASTER LEFT RETURN
- 5 = MASTER RIGHT SEND
- 6 = MASTER RIGHT RETURN
- 7 = OSCILATOR/TALKBACK
- 8 = PARALLELS

2TA-2TD TO MACHINE INPUTS



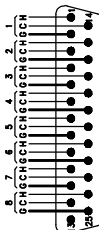
- 1 = 2 TRACK A LEFT INPUT
 - 2 = 2 TRACK A RIGHT INPUT
 - 3 = 2 TRACK B LEFT INPUT
 - 4 = 2 TRACK B RIGHT INPUT
 - 5 = 2 TRACK C LEFT INPUT
 - 6 = 2 TRACK C RIGHT INPUT
 - 7 = 2 TRACK D LEFT INPUT
 - 8 = 2 TRACK D RIGHT INPUT
- FROM MAIN L/R

2TA-2TD FROM MACHINE OUTP.



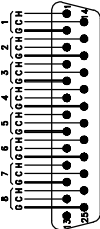
- 1 = 2 TRACK A LEFT OUTPUT
 - 2 = 2 TRACK A RIGHT OUTPUT
 - 3 = 2 TRACK B LEFT OUTPUT
 - 4 = 2 TRACK B RIGHT OUTPUT
 - 5 = 2 TRACK C LEFT OUTPUT
 - 6 = 2 TRACK C RIGHT OUTPUT
 - 7 = 2 TRACK D LEFT OUTPUT
 - 8 = 2 TRACK D RIGHT OUTPUT
- NORMALLED TO CRM

MAIN CENTER SUBBASS



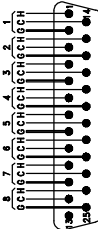
- 1 = CENTER OUTPUT
- 2 = SUBBASS OUTPUT
- 3 = CENTER SEND SIGNAL
- 4 = CENTER RETURN SIGNAL
- 5 = SUBBASS SEND SIGNAL
- 6 = SUBBASS RETURN SIGNAL
- 7 = PARALLELS
- 8 = PARALLELS

MAIN SURROUND



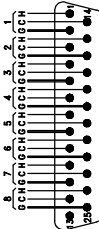
- 1 = LEFT SURROUND OUTPUT
- 2 = RIGHT SURROUND OUTPUT
- 3 = LEFT SURROUND SEND SIGNAL
- 4 = LEFT SURROUND RETURN SIGNAL
- 5 = RIGHT SURROUND SEND SIGNAL
- 6 = RIGHT SURROUND RETURN SIGNAL
- 7 = PARALLELS
- 8 = PARALLELS

TO SIGNAL PROC. INPUTS



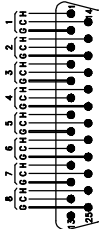
- 1 = SIGNAL PROCESSOR INPUT 1
 - 2 = SIGNAL PROCESSOR INPUT 3
 - 3 = SIGNAL PROCESSOR INPUT 5
 - 4 = SIGNAL PROCESSOR INPUT 7
 - 5 = SIGNAL PROCESSOR INPUT 9
 - 6 = NC
 - 7 = LEFT INPUT AMP1
 - 8 = RIGHT INPUT AMP1
- NORMALLED TO AUX

TO SIGNAL PROC. INPUTS



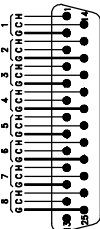
- 1 = SIGNAL PROCESSOR INPUT 2
 - 2 = SIGNAL PROCESSOR INPUT 4
 - 3 = SIGNAL PROCESSOR INPUT 6
 - 4 = SIGNAL PROCESSOR INPUT 8
 - 5 = SIGNAL PROCESSOR INPUT 10
 - 6 = NC
 - 7 = LEFT INPUT AMP 2
 - 8 = RIGHT INPUT AMP 2
- NORMALLED TO AUX

SIGNAL PROC. OUTP. 1-4



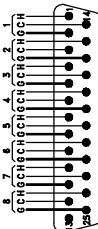
- 1 = SIGNAL PROCESSOR OUTPUT 1 LEFT
 - 2 = SIGNAL PROCESSOR OUTPUT 1 RIGHT
 - 3 = SIGNAL PROCESSOR OUTPUT 2 LEFT
 - 4 = SIGNAL PROCESSOR OUTPUT 2 RIGHT
 - 5 = SIGNAL PROCESSOR OUTPUT 3 LEFT
 - 6 = SIGNAL PROCESSOR OUTPUT 3 RIGHT
 - 7 = SIGNAL PROCESSOR OUTPUT 4 LEFT
 - 8 = SIGNAL PROCESSOR OUTPUT 4 RIGHT
- NORMALLED TO STEREO RETURNS

SIGNAL PROC. OUTP. 5-8



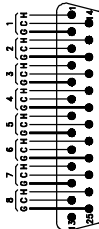
- 1 = SIGNAL PROCESSOR OUTPUT 5 LEFT
 - 2 = SIGNAL PROCESSOR OUTPUT 5 RIGHT
 - 3 = SIGNAL PROCESSOR OUTPUT 6 LEFT
 - 4 = SIGNAL PROCESSOR OUTPUT 6 RIGHT
 - 5 = SIGNAL PROCESSOR OUTPUT 7 LEFT
 - 6 = SIGNAL PROCESSOR OUTPUT 7 RIGHT
 - 7 = SIGNAL PROCESSOR OUTPUT 8 LEFT
 - 8 = SIGNAL PROCESSOR OUTPUT 8 RIGHT
- NORMALLED TO STEREO RETURNS

SIGNAL PROC. OUTP. 9-10



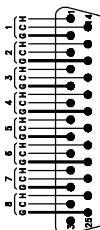
- 1 = SIGNAL PROCESSOR OUTPUT 9 LEFT
 - 2 = SIGNAL PROCESSOR OUTPUT 9 RIGHT
 - 3 = SIGNAL PROCESSOR OUTPUT 10 LEFT
 - 4 = SIGNAL PROCESSOR OUTPUT 10 RIGHT
 - 5 = PARALLELS
 - 6 = PARALLELS
 - 7 = PARALLELS
 - 8 = PARALLELS
- NORMALLED TO STEREO RETURNS

TIE LINES 1-256



- 1 = TIE LINES 1/9/17 ..
- 2 = TIE LINES 2/10/18 ..
- 3 = TIE LINES 3/11/19 ..
- 4 = TIE LINES 4/12/20 ..
- 5 = TIE LINES 5/13/21 ..
- 6 = TIE LINES 6/14/22 ..
- 7 = TIE LINES 7/15/23 ..
- 8 = TIE LINES 8/16/24 ..

MULTITRACK



- 1 = TAPE INPUT 1/5/9 ..
- 2 = TAPE INPUT 2/6/10 ..
- 3 = TAPE INPUT 3/7/11 ..
- 4 = TAPE INPUT 4/8/12 ..
- 5 = TAPE OUTPUT 1/5/9 ..
- 6 = TAPE OUTPUT 2/6/10 ..
- 7 = TAPE OUTPUT 3/7/11 ..
- 8 = TAPE OUTPUT 4/8/12 ..

11.0 SPECIFICATIONS

INPUTS

Mic inputs	2kOhm balanced -129 dBr input noise A weighted, gain 84 dB
Line inputs	10kOhm balanced +/- 20dB gain control, max 34dB gain
Tape inputs	10kOhm balanced +4dBu, unbalanced -10dBV
Insert returns	10kOhm balanced 0 dBu

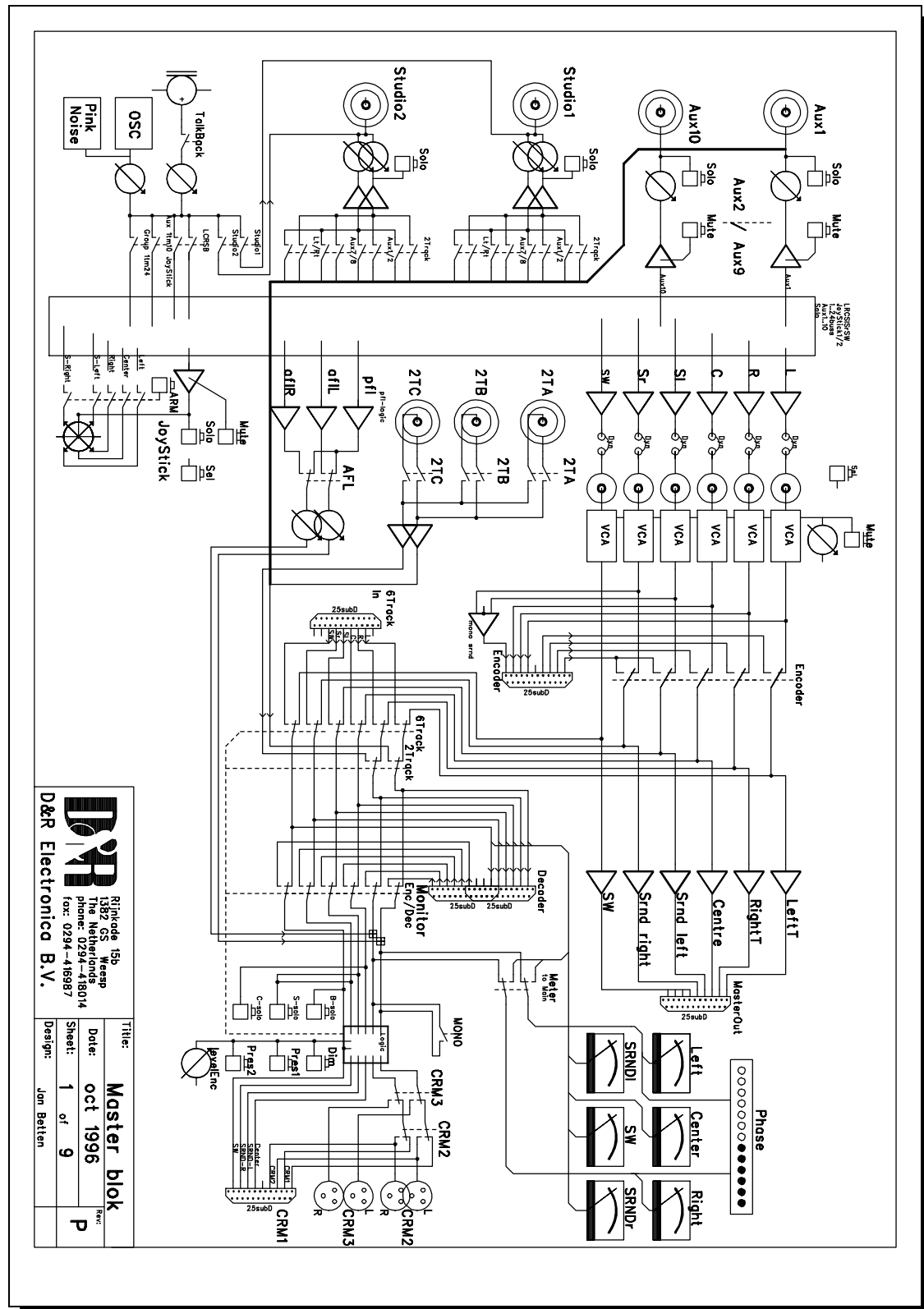
OUTPUTS

Tape outputs	47 Ohm +4dBu balanced /-10dBV unbalanced (selectable).
Insert sends	47 Ohm ground compensated 0 dBu level.
All other outputs	47 Ohm balanced +4dBu, max. +22dBu.

OVERALL

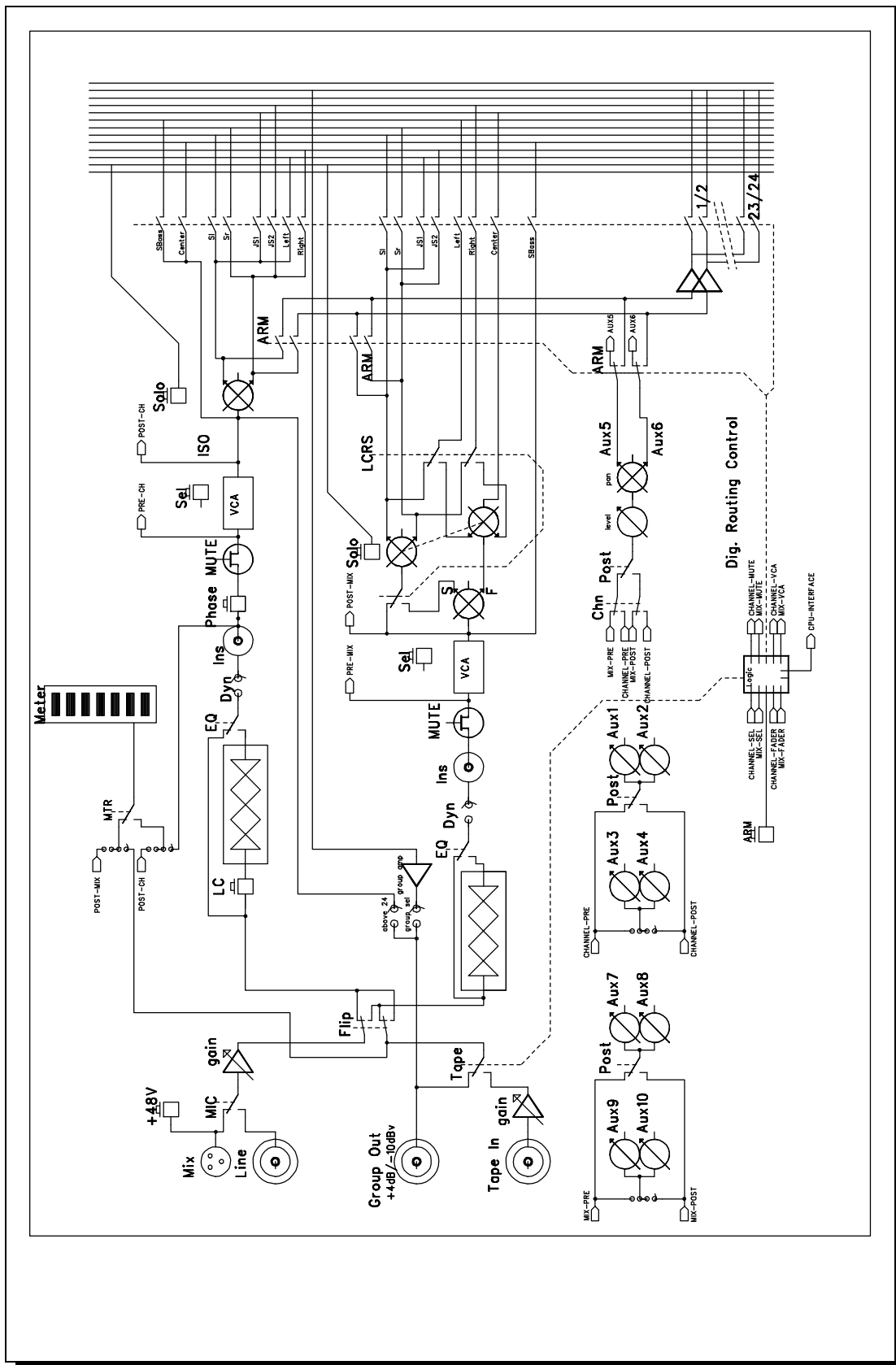
Headroom:	no less than 22 dB
Frequency response:	10-200,000 Hz -2dB (VCA out) 10-30,000 Hz -2dB (VCA in)
Harmonic distortion	0.007% (VCA out) 0.016% (VCA in)
Noise	32 channels assigned -89dBr
Crosstalk	No less than 90dBr

12.0 SIGNAL FLOW MASTER SECTION

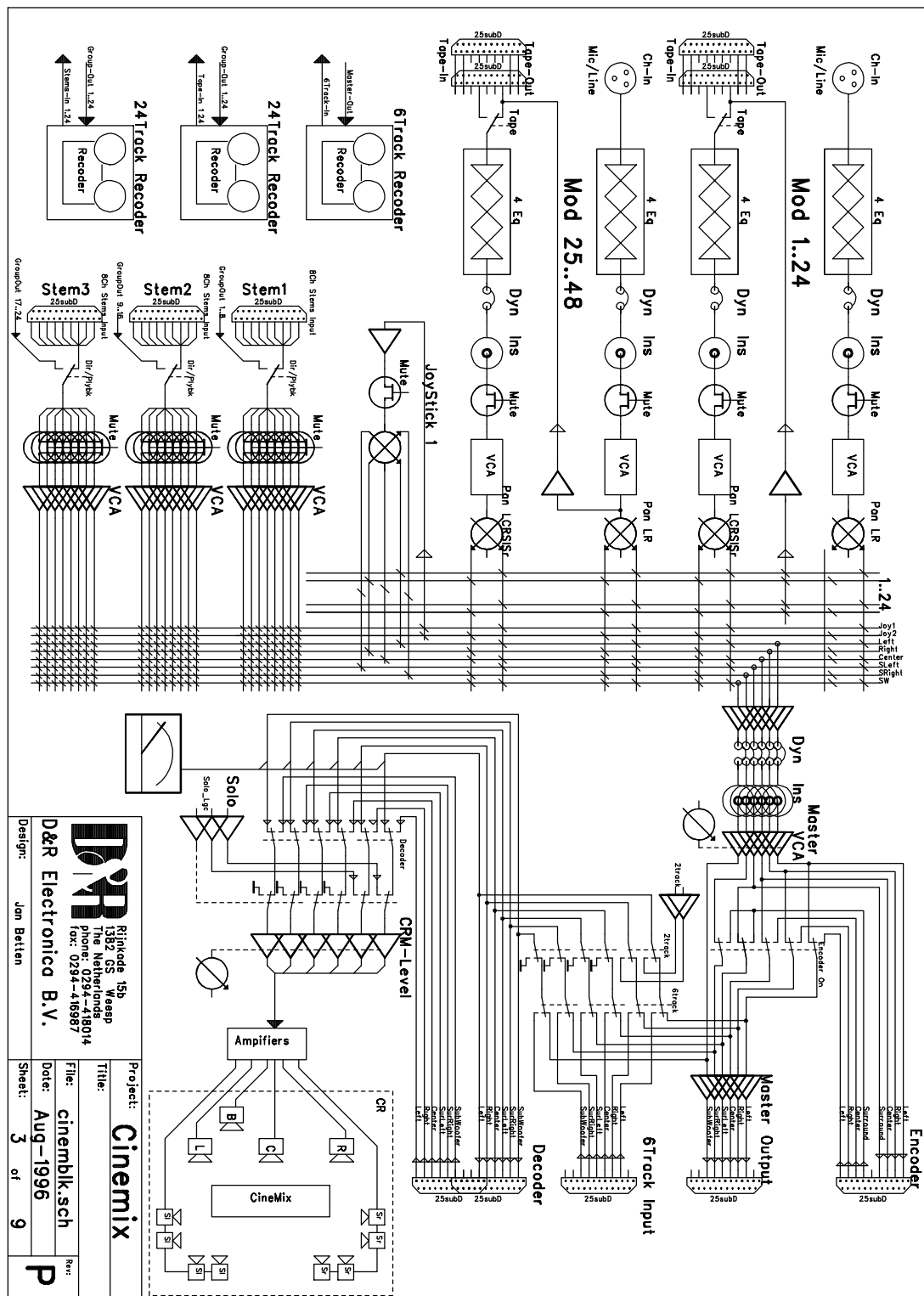


D&R Rijnrode 15h 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987 D&R Electronica B.V.	Title: Master blok	
	Date: oct 1996	Rev: P
	Sheet: 1 of 9	
	Design: Jan Beiten	

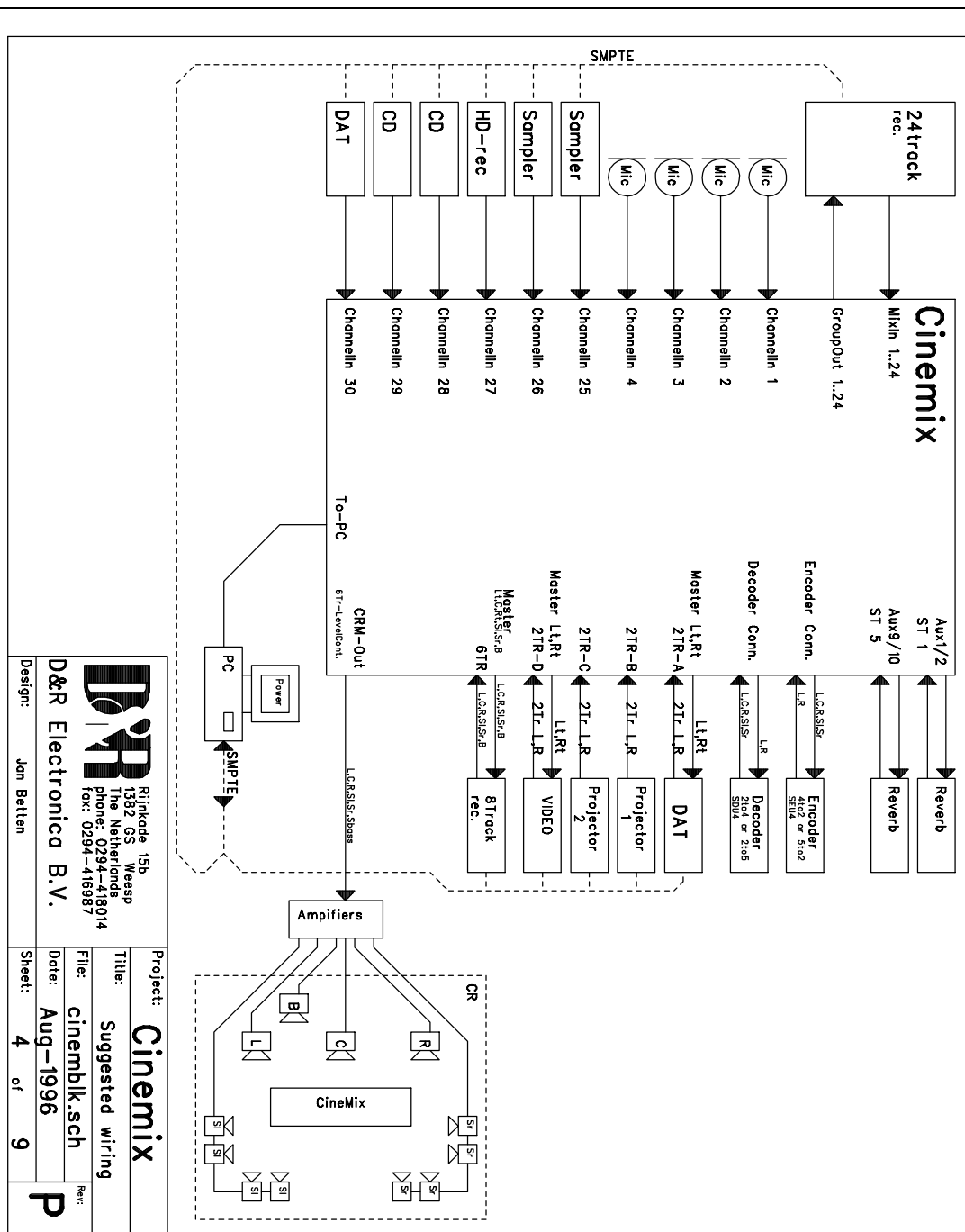
13.0 SIGNAL FLOW INPUT MODULE



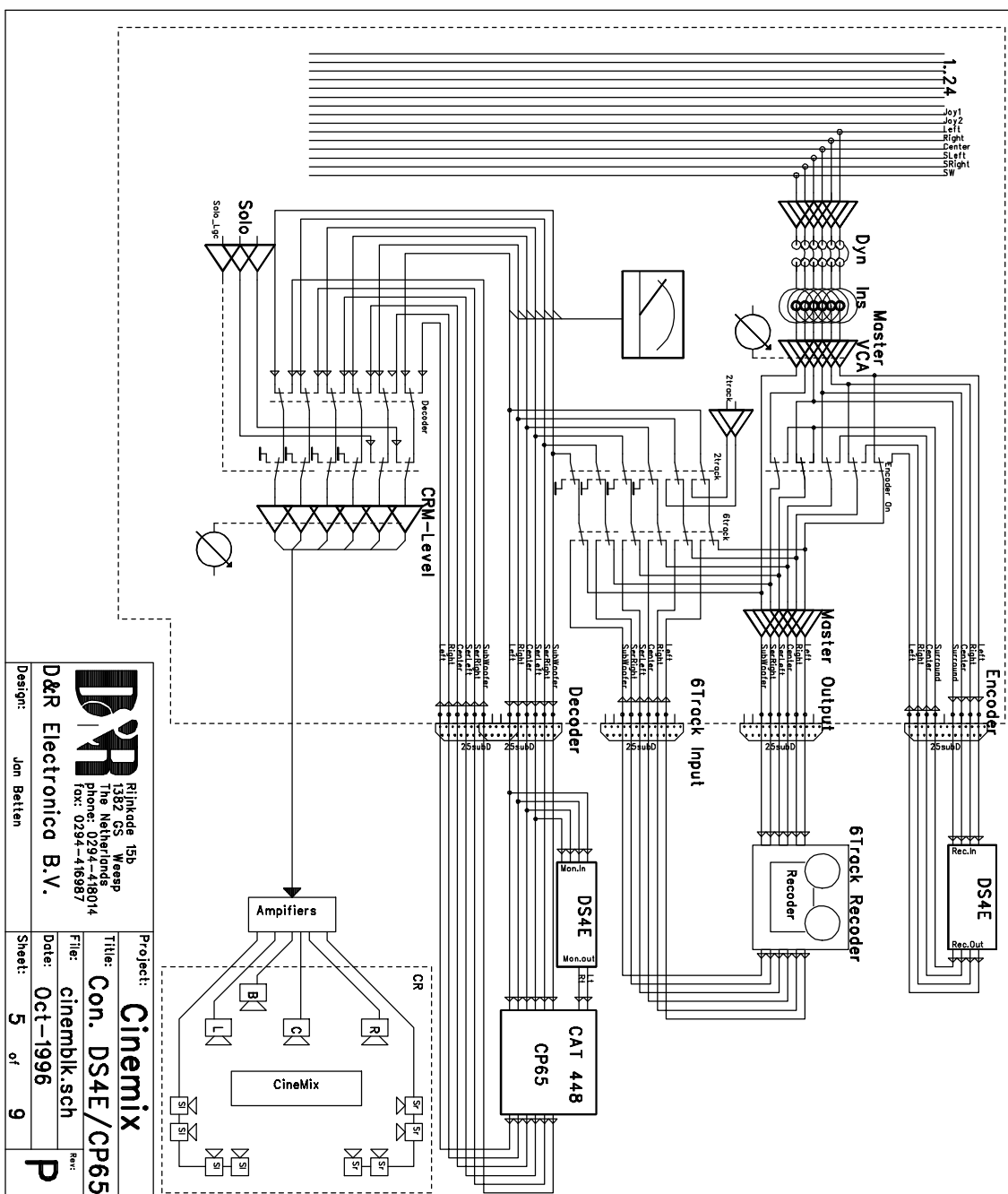
14.0 System signal flow Cinemix



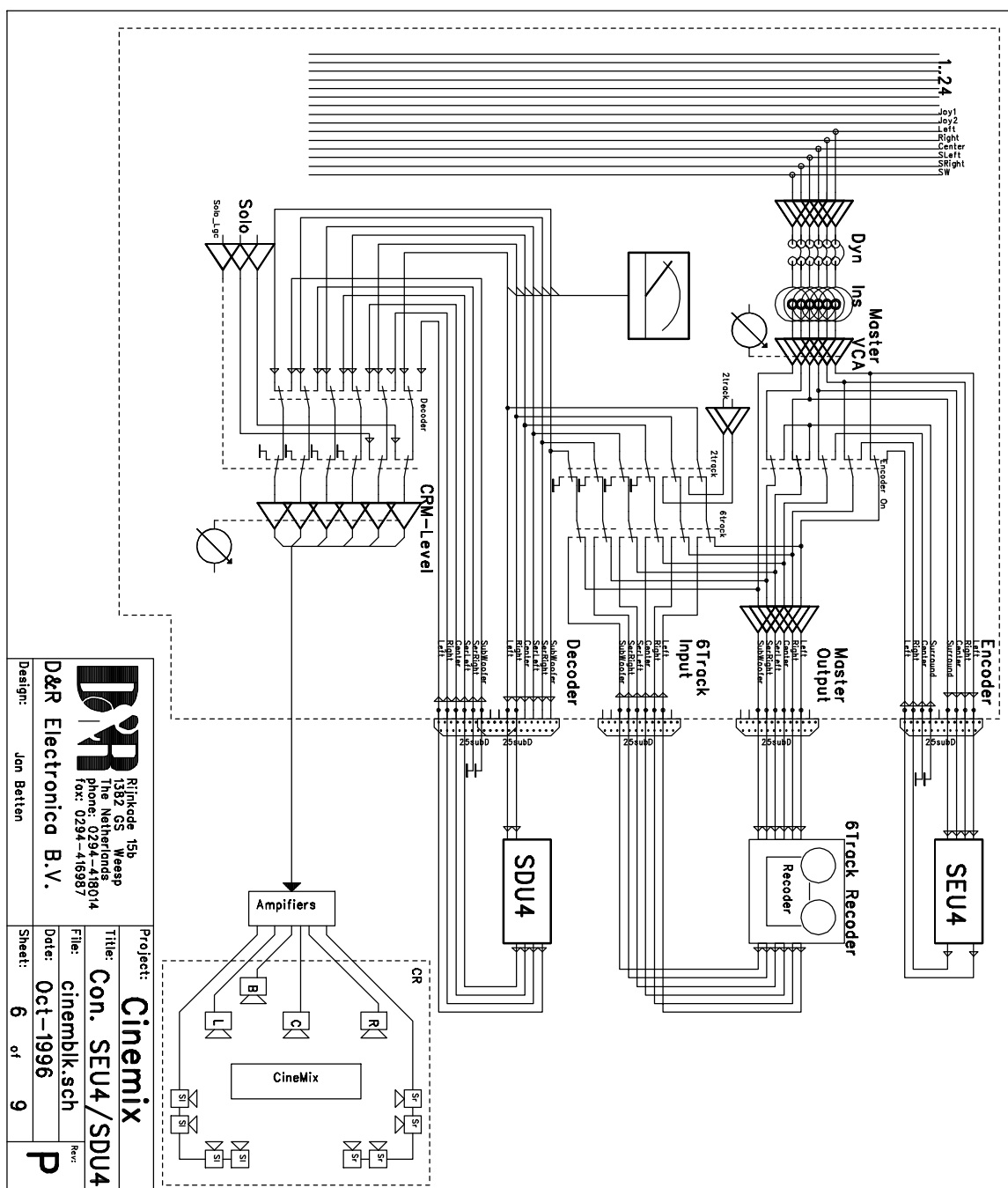
15.0 Interfacing with external equipment




16.0 Interfacing with DS4E / CP65 17.0

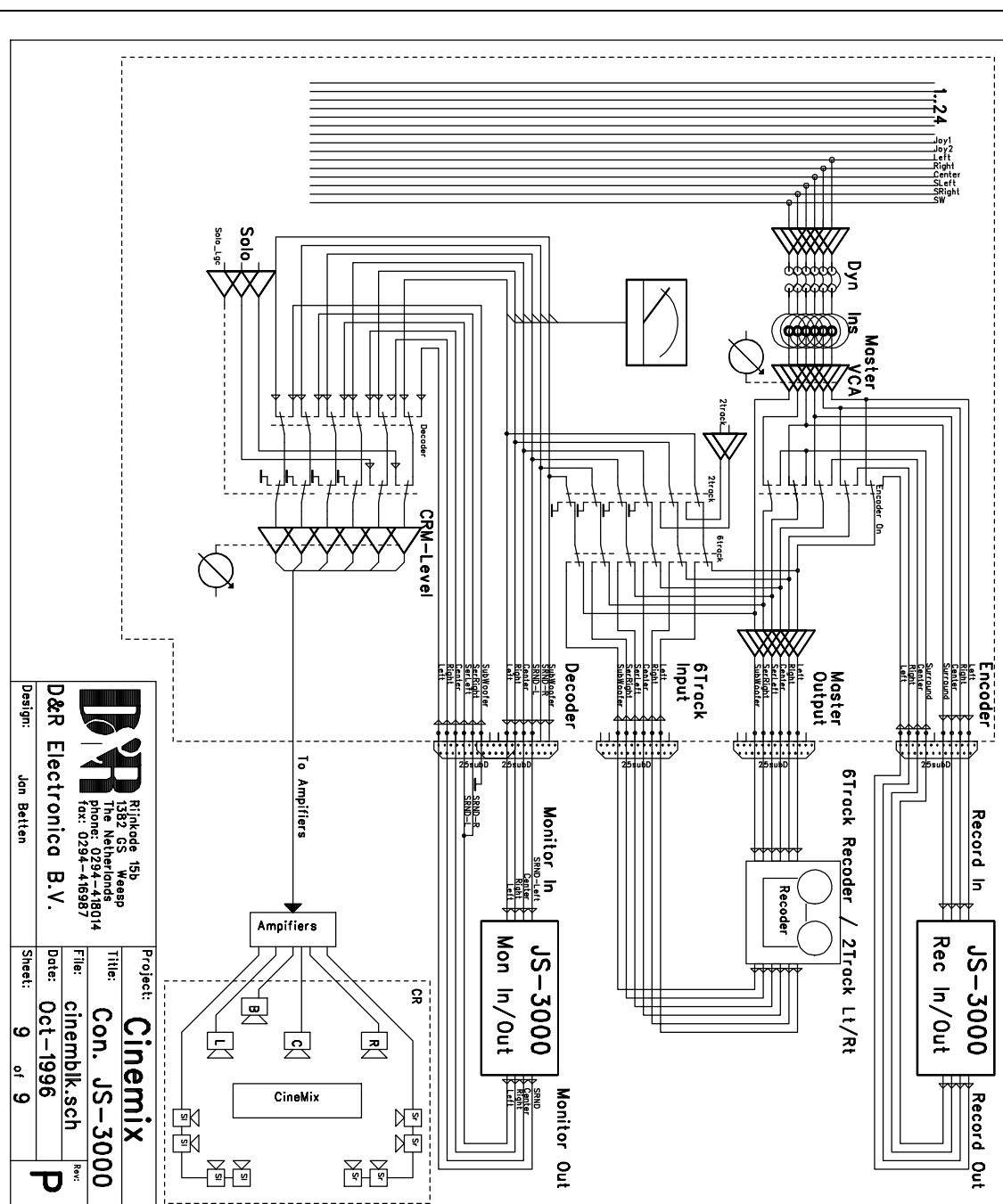


17.00 Interfacing with "Dolby" SEU4 / SDU4



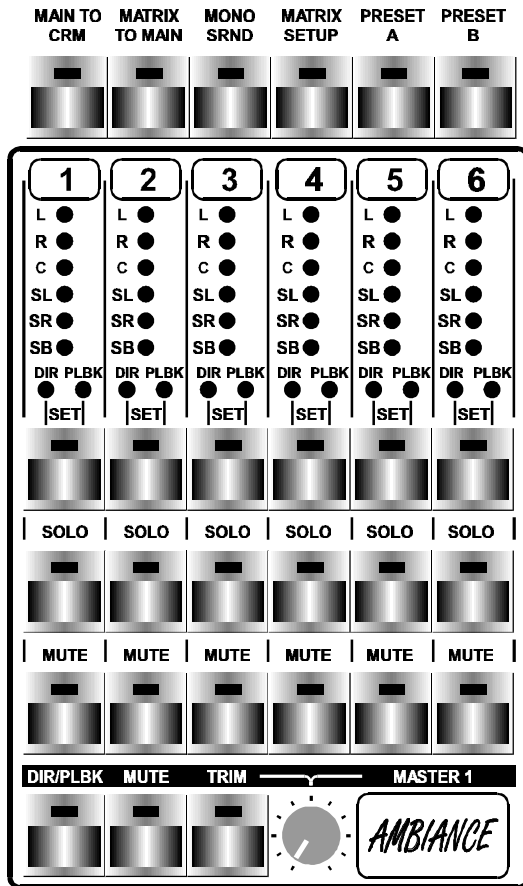
		Rijnkade 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987	
D&R Electronics B.V. Design: Jon Betten		Project: Cinemix Title: Con. SEU4/SDU4 File: cinembk.sch Date: Oct-1996 Sheet: 6 of 9	
		Rev: P	

18.00 Interfacing with JS-300



D&R		Project:	
Rinkode 15b 1382 GS Weesp The Netherlands Phone: 0294-416987 Fax: 0294-416987		Title:	
D&R Electronica B.V.		Con. JS-3000	
Design: Jan Batten		File:	
		cinemixk.sch	
		Date:	
		Oct-1996	
		Sheet:	
		9 of 9	
		Rev:	
		P	

19.0 "Control Room Monitor Matrix" (for Stems/pre-recording)



1. The CRM (STEMS/pre-recording) module fits into 3 blind spaces positioned next to Cinemix's master section.

2. The STEMS module is able to mix down a maximum of 24 tracks (4 x 6 tracks or 24 tracks) into 4 Stems. (4x6x2)

3. The 24 tracks recording system can either be fed from the group outputs or, preferable from the 6 master outputs (Left / Center / Right / Left-surround / Right-surround / Subbass). Its tape outputs and input shall be fed back into the STEMS module.

4. The output of the STEMS module is inserted in the Matrix insert (see Cinemix block diagram) or assigned to the 6 main busses for final track lay down in various formats such as 5.1 / 4 / stereo.

5. The STEMS module is divided into 4 identical sections for STEMS like Ambiance, Effects, Music and Dialogue.

6. On top of the STEMS module is a general programming area of 6 buttons.

7. The programming switches have the following functions:

8. **MAIN TO CRM** connects the main outputs (L, C, R, SL, SR, SB) to the CRM outputs as is default when no STEMS (matrix) module is fitted inside Cinemix's chassis.

9. **MATRIX TO MAIN** connects the summed outputs of the matrix to the summing busses (L, C, R, SL, SR, SB) of the Cinemix for final track lay down in the recording process.

10. **MONO SRND** switches the stereo surround output of the Matrix into mono to both surround outputs for 4 channel mixdown.

- 11. MATRIX SETUP** puts the matrix in a programming mode. In this mode all inputs 1-24 can be individually assigned to one of the matrix outputs (L, C, R, Sl, Sr, SB) or to no output at all. Programming is done via the SET switch below the six assign LED's by stepping through all choices.
- 12. PRESET A and PRESET B** is capable of putting the whole matrix in a preprogrammed mode instantly. Storing of a setup is done by holding down the PRESET A or B switch by more than 3 seconds.
- 13. SET** is located below the 6 assign LED's and switches between Direct, Playback and Toggle mode. In Toggle mode the LED of the SET switch is off and the channel can be switched by the master DIR/PLBK switch. Any combination of individual switching between direct (DIR) and playback (PLBK) and master DIR/PLBK switching can be programmed in this way. The SET switch is also to be used for MATRIX SETUP (see point 12)
- 14. SOLO** puts one input (either Direct or Playback) on Cinemix's Solo buss, post TRIM control.
- 15. MUTE** cancels the output of a track
- 16. DIR/PLBK** switches all six outputs between direct and playback of all input channels that are put in TOGGLE mode (SET led in switch is off).
- 17. MASTER MUTE** mutes a whole group of 6 (complete STEMS)
- 18. TRIM** activates the, otherwise fixed, master trim control for an overall adjustment of the complete 6 track (STEMS) level, when necessary.

19.1

INSTALLATION AND ALIGNMENT OF THE MATRIX MODULE

The STEMS/MATRIX module is built out of a number of horizontal PCB's with very complex electronics, and we advice you to be very careful when positioning the module inside the Cinemix console.

1) Power down the console.

Take out the 3 Blank modules positioned right of the Mastersection.

2) Connect the 10 wide flatcables to the corresponding 25pin Sub-D connectors on the backpanel of the Mastersection*.

Connect the 16 pole flatcable coming from p.c. board "Matrix 7" (connector J3 , remove jumpers) in the STEMS module, to connector J11 ("to pre recording") on p.c. board

"Cinem 3" (starting from the left, this is the first p.c. board in the mastersection).

Now connect both 64 pole flatcables** of the console to the two 64 pole connectors of the STEMS modules.

3) Check if everything is back on it's place again. Now power up the console. If there are signs of fire, explosions or any other things you normally would not expect from a mixing console, call D&R HQ.

4) Switch "Matrix to CRM" on.

Feed a balanced signal of +4dBu to input "Dir. 1" on the backpanel of the Mastersection.

With the switches DIR/PLBK on the frontpanel you can switch between the Direct and Playback inputs.

Route the signal to the CRM Left, Right or Center output of the Mastersection.

The level of the input now has to be trimmed with the trimpot on the p.c. boards "Matrix 5". These are the 2 p.c. boards at the bottom of the STEMS module. Both these boards are totally equal to each other.

The upper one is for the inputs 1-12 , the lower one is for the inputs 13-24. To trim the level of input "Dir. 1" you have to adjust trimpot "Dir1/13" on the upper p.c. board.

The input must be trimmed in such a way that the Master VU meters are at 0dB with an input signal of +4dBu (***).

Repeat this procedure for all remaining 23 "Dir." inputs and all 24 "Plbk" inputs.

5) After the installation of the STEMS module the communication between the module and the mastersection must be checked. See if the SOLO and MATRIX TO MAIN functions are working properly.

NOTES:

Depending if a new backpanel is supplied with retrofit kits for older consoles the cables may already be connected to the backpanel. These are the flatcables that are lying on the bottom of the console.

Several connectors are provided which all can be used.

*** This also applies for any external meters if used.

FUNCTIONS:

The STEMS/Monitoring Matrix Module is built up of 4 identical sections.

Each section consists of 6 tracks, each track with a "Direct" and a "Playback"input.

Each track has a dedicated "SET" , "SOLO" and "MUTE" switch.

A master "Direct/Playback" switch and a master "Mute" switch are positioned at the bottom of each section together with the "Trim switch and pot.

At the top of the module 6 masterfunction switches are positioned called "Main to CRM" , "Matrix to Main" , "Mono Surround" , "Matrix Setup" , "Preset A" and "Preset B".

INDIVIDUAL FUNCTIONS PER TRACK:

Each track consists of a strip starting at the top with a square indicating the track number (1-24).

Under the tracknumber 6 assign Led's are positioned which show if the output of the track is routed to either the Left , Right , Center , Surround Left, Surround Right or Subbass master buses or CRM outputs.

- SET.

The SET switch is located under the 6 assign led's. The SET switch enables the engineer to switch between the Direct and Playback signal. If the switch is put in Toggle mode (led in the switch off) the track output can be switched between Direct and Playback using the master Dir/Playback switch positioned at the bottom of the section.

The 3 following modes are programmed in sequence under the SET switch.

- 1)-Direct : the led in the SET switch and the red led at the left above the SET switch are lit.
- 2)-Playback : the led in the SET switch and the green led at the right above the SET switch are lit.
- 3)-Toggle : the led in the SET switch is off. The green or red led is on, depending of the position of the DIR/PLBK switch.

The SET switch is also used during the setup procedure of the module.

When the module is in setup mode the SEL switch is used to route the output of the individual tracks to the 6 master outputs.

-SOLO When the SOLO switch is activated the corresponding input (either Direct or Playback) is put on the Cinemix's Solo buss, post TRIM control.

-MUTE Each individual track has it's own Mute switch which mutes the output of the track when activated.

Under the control switches of the individual tracks 3 more switches and a trimpot are positioned for control functions for the corresponding group of 6 inputs.

-DIR/PLBK The DIR/PLBK switch switches all 6 outputs between direct and playback of all input channels that are put in TOGGLE mode (led in SET switch off, see explanation SET switch).

-Master MUTE When activated this switch mutes all 6 tracks of the corresponding group regardless the status of the individual mute settings. When the Master MUTE switch is deactivated again all settings will be the same as before the Master MUTE was activated.

-TRIM When the TRIM switch is activated, the master TRIM control pot can be used to adjust the overall level of the corresponding 6 tracks when necessary.
If the TRIM switch is deactivated the outputs are at a fixed level.

MODULE MASTER FUNCTIONS:

At the top of the module 6 master programming function switches are located. These switches are used to define and program the master status of the complete module.

-MAIN TO CRM When activated all main outputs (Left, Center, Right, Surround Left, Surround Right and Subbass) are connected to the CRM outputs.

-MATRIX TO MAIN When the MATRIX TO MAIN switch is activated the summed outputs of the matrix are connected to the master summing buses (L,C,R, Sl, Sr and SB) of the Cinemix. This feature can be used for final tracklaydown in the recording process.

-MONO SRND With this switch the stereo surround outputs of the matrix can be switched into mono signals to the Surround Left and Surround Right outputs.

-MATRIX SETUP the MATRIX SETUP switch puts the matrix module in a programming mode. In this mode all 24 individual tracks can be assigned to any of the 6 (L,C,R,Sl,Sr,SB) matrix outputs using the SET switches on each track.

-PRESET A and PRESET B.

The matrix module can be put in two different pre-programmed setups. When a setup has been programmed in the MATRIX SETUP mode, this setup can be stored by pressing either PRESET A or PRESET B. When working with the module, either PRESET A or PRESET B must be activated.

If there is any question left do not hesitate to call our service department at 0031 294 418014 or preferably send a fax with your questions to 0031 294 416987 an E-mail is also possible to info@d-r.nl

19.2. ALIGNMENT OF VCA's:

- a. Activate all the TRIM pots by activating the TRIM switch and position the pots in their mid position.
- b. Connect a voltmeter between pin 2 and 3 of VCA IC-8
- c. Now adjust with the small blue adjustment trimmer pots on PCB 5 the reading to be 0 volt.
- d. Repeat this procedure for IC-30 and all for all other VCA banks.
- e. Now the VCA's are controlled by the trimmer pots on the Matrix 4 PCB
- f. Now adjust the 4 trimmer pots on matrix 4 PCB (CPU) by adjusting the trimmer pots on matrix 5, VCA-IC8 and VCA IC30. Measure between pin 2 and 3.
- g. Now all VCA's are trimmed for 0 dB unity gain.
- h. Now connect a +4dBu signal on the dir/playback output and select via the frontpanel switches an input (dir or playback) and assign this to an output of J3 Matrix 7 PCB. The input can be trimmed with the trimmer pot near the VCA. The output should read 0dB with an input of +4dBu balanced.
- i. First trim the input level and check whether this signal can be assigned to all outputs.
- j. Check if both inputs (DIR/PLAYBACK) are properly working
- k. Check if the meter output has a level of 0 dBu.
- l. Check if SOLO works.
- m. Check if the VCA leveling works.
- n. Repeat this procedure for all 24 inputs.
- o. Check if the switches Main to CRM / Matrix to main / and Mono surround work properly.
- p. If there is only signal on Surround Left or Right and the Surround outputs are set to mono surround the output level should read -6dB.

20.0

Conformity statement according to ISO/IEC Nr 22 and EN 45014

Name Manufacturer	D&R Electronica Weesp b.v.
Address manufacturer	Rijnkade 15B, 1382 GS Weesp, The Netherlands

declares that this product

Name product	CINEMIX
Modelnumber	n.a.
Produktoptions	All

passed the following product specifications:

Security	EN 60950: 1988 +A1, A2
----------	------------------------

EMC:	CISPR-22: 1985 / EN 55022: 1988 class B (*) EN 50082-1: 1992 IEC 801-2:1991 / prEN 55024-2:1992 - 3kV CD, 8kV AD IEC 801-3:1984 / prEN 55024-3:1991 - 3 V/m IEC 801-4:1988 / prEN 55024-4:1992 - 0.5kV signalcables, 1 kV powercables.
------	---

Extra information:

The product passed the specifications of the following regulations;

Low voltage 73 / 23 / EEG
EMC-regulations 89 / 336 / EEG.

(*) The product is tested in a normal users environment.

PRODUCT SAFETY

This product is manufactured with the highest standards and is double checked in our quality control department for reliability in the "HIGH VOLTAGE" section.

CAUTION

Never remove any panels, or open this equipment. No user servicable parts inside.

Equipment power supply must be grounded at all times.

Only use this product as described, in user manual or brochure.

Do not operate this equipment in high humidity or expose it to water or other liquids.

Check the AC power supply cable to assure secure contact.

Have your equipment checked yearly by a qualified dealer service center.

Hazardous electrical shock can be avoided by carefully following the above rules.

EXTRA CAUTION FOR LIVE SOUND

Ground all equipment using the ground pin in the AC power supply cable.

Never remove this pin. Ground loops should be eliminated only by use of isolation transformers for all inputs and outputs. Replace any blown fuse with the same type and rating only after equipment has been disconnected from AC power. If problem persists, return equipment to **qualified service technician**

PLEASE READ THE FOLLOWING INFORMATION

Especially in sound equipment on stage the following information is essential to know.

An electrical shock is caused by voltage and current, actually it is the current that causes the shock.

In practise the higher the voltage the higher the current will be and the higher the shock.

But there is another thing to consider and it is resistance. When the resistance in Ohms is high between two poles, the current will be low and vica versa.

All three of these; voltage, current. and resistance are important in determining the effect of an electrical shock.

However, the severity of a shock primarily determined by the amount of current flowing through a person.

A person can feel a shock because the muscles in a body respond to electrical current and because the heart is a muscle it can affect, when the current is high enough. Current can also be fatal when it causes the chest muscles to contract and stop breathing. At what potential is current dangerous.

Well the first feeling of current is a tingle at 0.001 Amp of current. The current between 0.1 Amp and 0.2 Amp is fatal.

Imagine that your home fuses of 20 Amp can handle 200 times more current than is necessary to kill. How does resistance affect the shock a person feels. A typical resistance between one hand to the other in "dry" condition could well over 100,000 Ohm.

If you are playing on stage your body is perspiring extensively and your body resistance is lowered by more than 50%. This is a situation in which current can easily flow.

Current will flow when there is a difference in ground potential between equipment on stage and in the P.A. system. Please do check if there is any potential between the housing of the mikes and the guitarsynth amps, which will be linked by your body on stage. Imagine, a guitar in your hand and your lips close to the mike! A ground potential difference of above 10 volts is not unusual, in improperly wired buildings it can possibly be as high as 240 volts.

Although removing the ground wire sometimes cures a system hum, it will create a very hazardous situation for the performing musician.

Always earth all your equipment by the grounding pin in your mains plug. Hum loops should be only cured by proper wiring and isolation input/output transformers.

Replace fuses always with the same type and rating after the equipment has been turned off and unplugged.

If the fuse blows again you have an equipment failure, do not use it again and return it to your dealer for repair.

And last but not least be carefull not to touch a person being shocked as you, yourself could also be shocked.

Once removed from the shock, have someone send for medical help immediately

Always keep the above mentioned information in mind when using electrically powered equipment.

D&R Electronica Weesp b.v.
Rijnkade 15B
1382 GS, WEESP
The Netherlands
Phone: ++31-294-418 014
FAX: ++31 294-416-987

Website: <http://www.d-r.nl>
E-mail: info@d-r.nl

Dear Cinemix owner,

In this manual we have tried to give you an overview of all that the Cinemix has to offer. If you have any questions, do not hesitate to contact us or the D&R USA customer support department.

With the Cinemix series there is no limit to your creativity.

We wish you many years of enjoyable mixing.

Best regards,

Duco de Rijk
PRESIDENT D&R, HOLLAND

We hope you find this manual useful and easy to understand. As always, we are open to any suggestions about this manual or any D&R products.

DNR

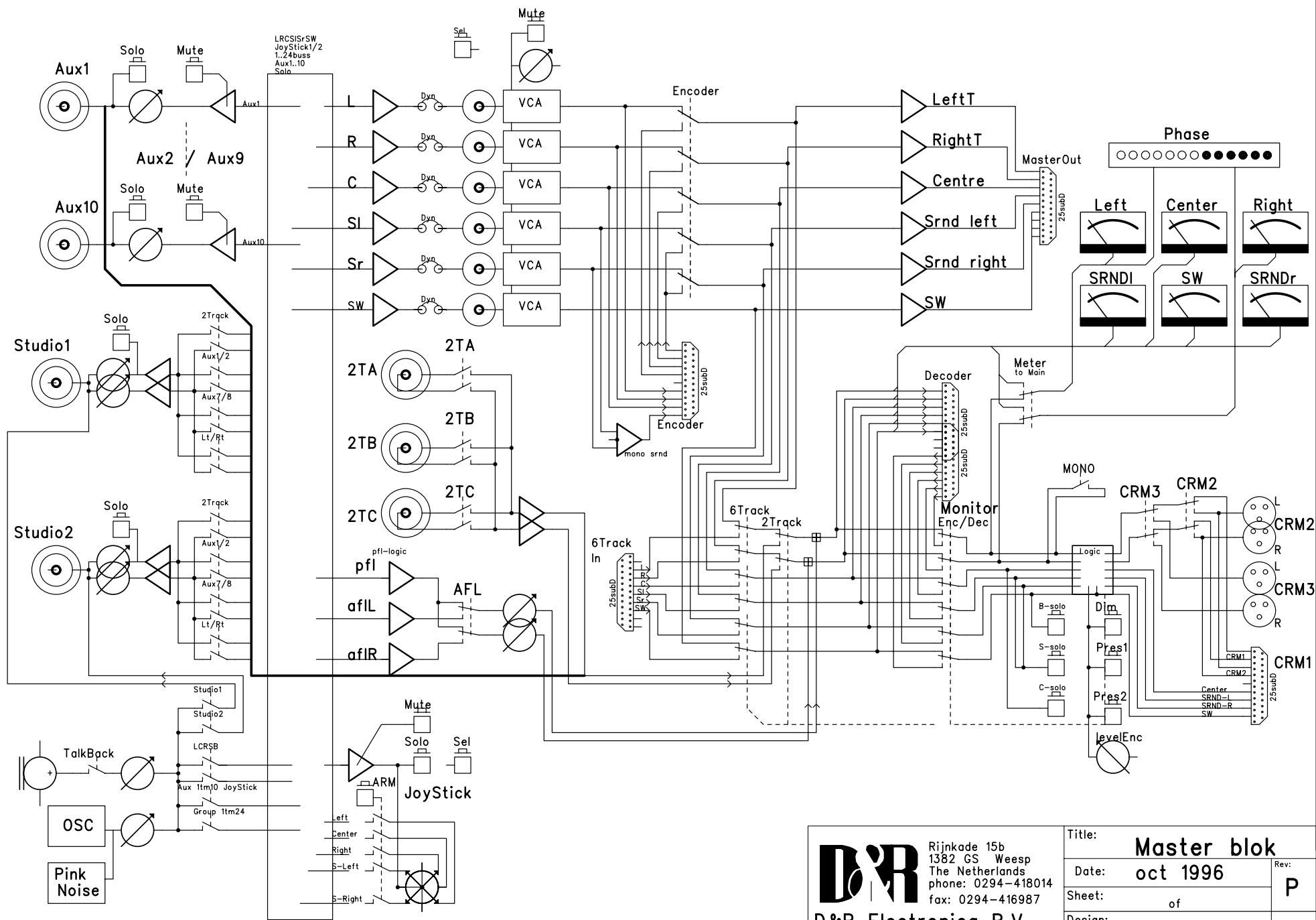
Cinemix

SERVICE MANUAL

Circuit diagram list Cinemix

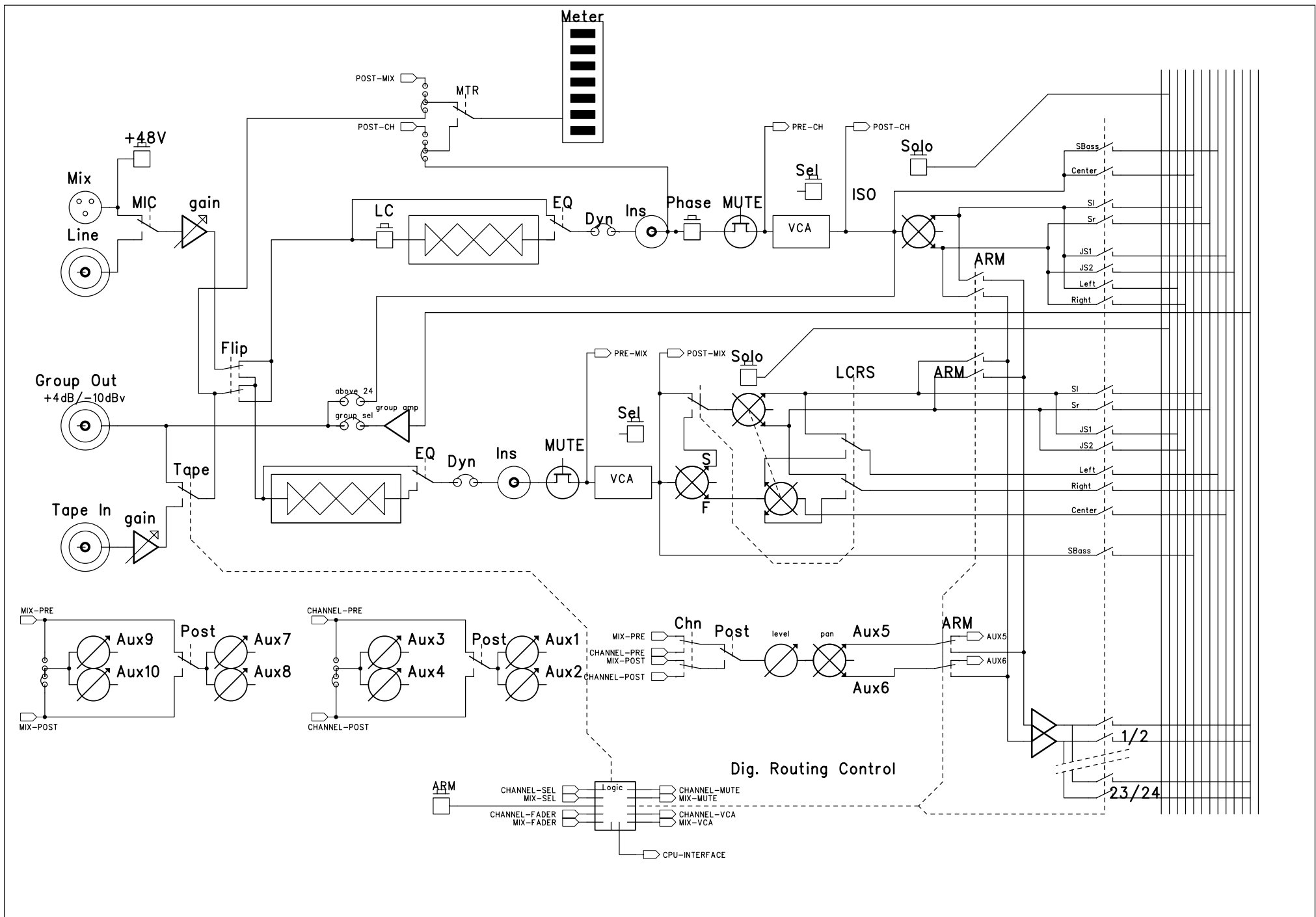
Description	PCB name	Number of Sheets
Block diagram master		1
Block diagram channel		1
Block diagram digital Signal flow		1
Conn.Diagram Fader/TBmic/joyst/switch.		1
Dual inline channel	Cinemix 1C	3
Dual stereo inline channel	Cinemix 2A	3
Channel routing	Cinemix 10A	1
Channel routing film-master	Cinemix 10D	1
Master 1	Cinemix 3B	2
Master 2	Cinemix 4B	2
Master 3	Cinemix 5A	2
CRM/MTR-conn	Cinemix 31B	1
6 track, Dec. / Enc.-con.	Cinemix 32C	1
Pink noise	Cinemix 41A	1
Master 4-CPU	Cinemix 6A	2
Master 4-CPU (film-master)	Cinemix 6C	2
Master 5-keyb1	Cinemix 7A	1
Master 5-keyb1 (film-master)	Cinemix 7C	1
Master 6-keyb2	Cinemix 8A	1
AS-con./Digital power	Cinemix 9B	1
Automation Cent. Proc. Unit	CPU_AMP1C	1
Automation I/O mux	Mux_AMP1C	1
Ledbar 13 segments	LB13-1D	1
Ledbar 25 segments	HR25F	
Phasemeter	Phase-1A	1
Phasemeter + Vu connection diagram		1
Patchpanel	Merlin PP11A	1
Patchpanel	Merlin PP12P	1
Patchpanel	Melin PP13P	1
Patchpanel Merlin/Octagon	MERLIN PP1C	1
Powersupply	PSL-1A pos.	1
Powersupply	PSR-1A neg.	1
Powersupply phantom 48V	PS48V-A	1

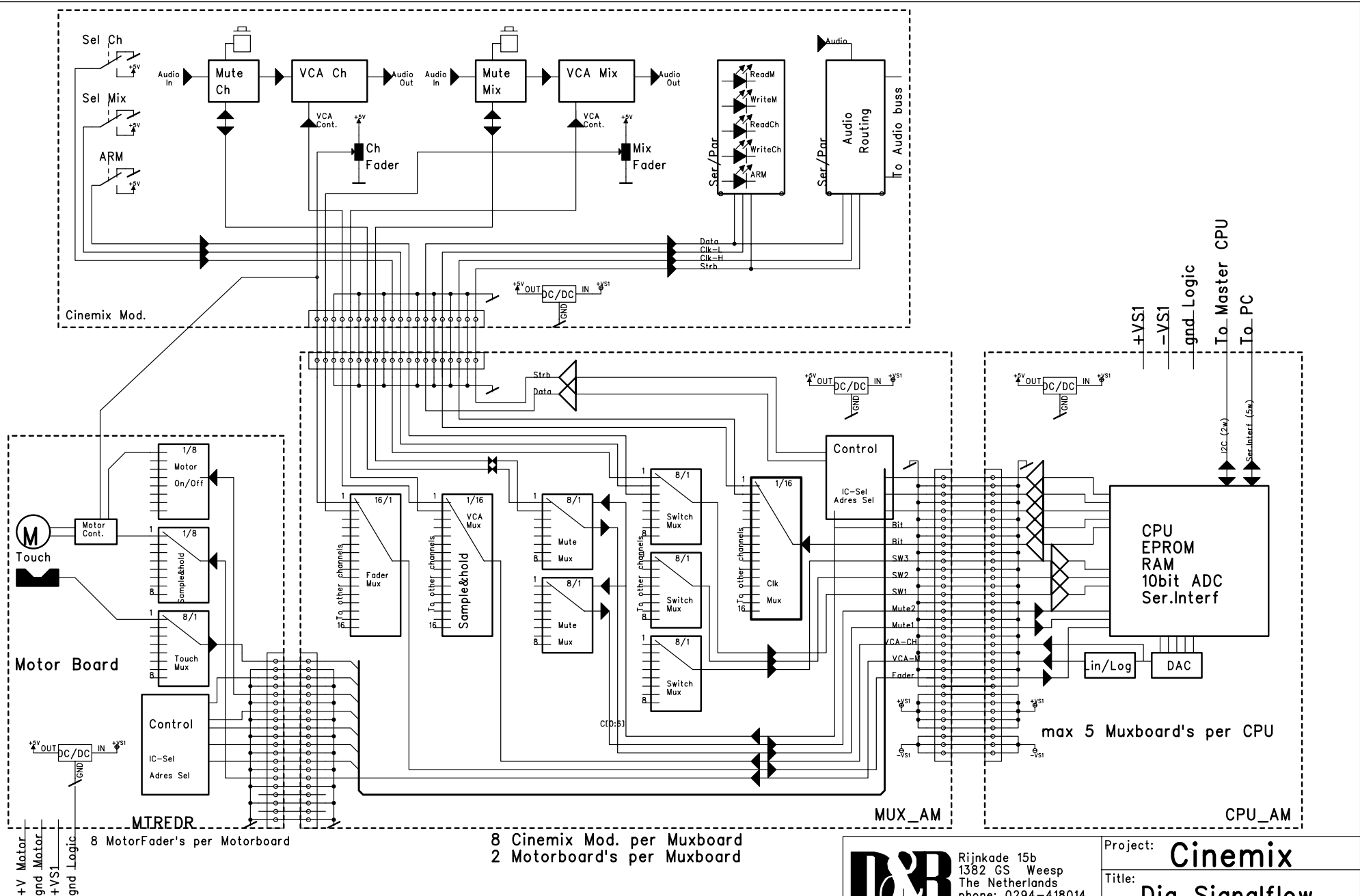
Powersupply logic	PS_DIG2A	1
Power distribution 2POWER-CON	Cinemix 20B	1



D&R Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987
D&R Electronica B.V.

Title: Master blok		Rev:
Date: oct 1996		P
Sheet: _____	of _____	
Design: Jan Betten		





D&R Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project: **Cinemix**

Title: **Dig Signalflow**
cinembk.sch

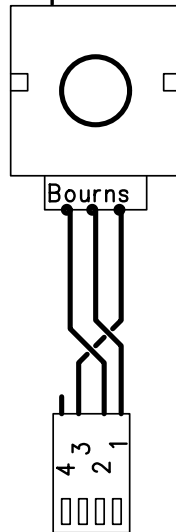
File: **14-01-1997**

Date: **14-01-1997**

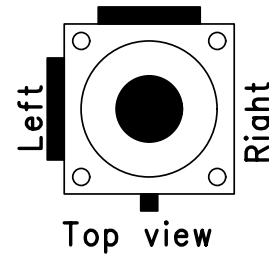
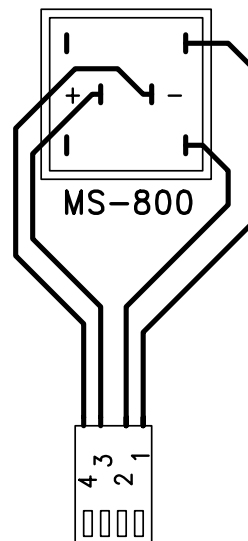
Sheet: **of**

Rev: **P**

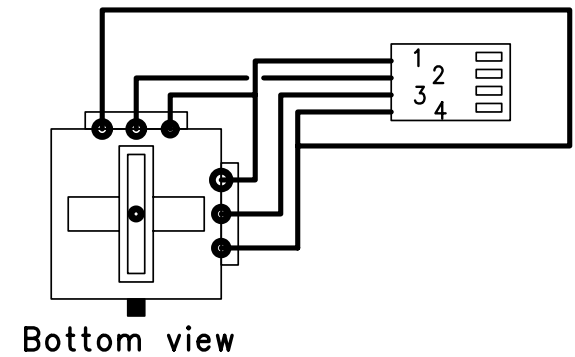
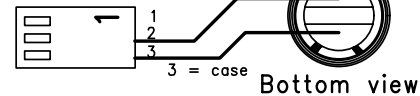
Top view



Bottom view

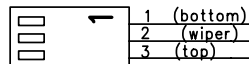


TB MIC

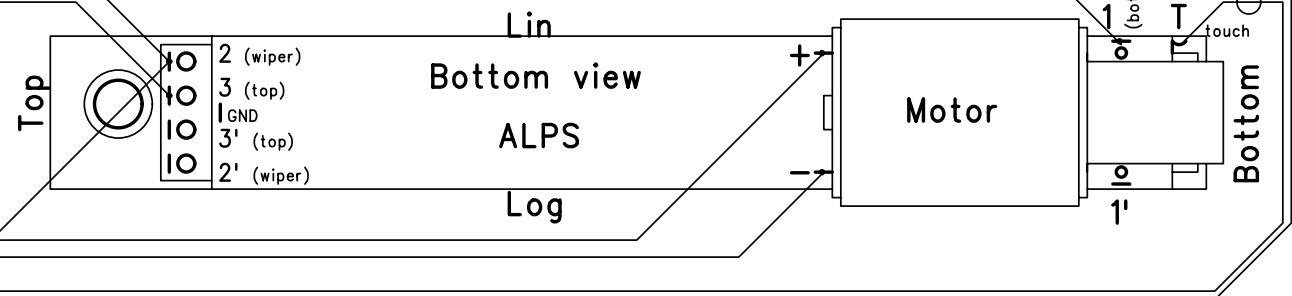


Power Connector	
ConsolePower	MotorPower
-1=+12V logic	-1=+12V motor
-2=-12V logic	+1=+12V motor
-3= gnd logic	-2= gnd motor
-4= gnd ana	+2= gnd motor
+1=+18V ana	
+2=+18V ana	
+3=+48V ana	
+4= gnd ana	

To Mod.



1,2,3=lin10K
 1',2',3'=log10k
 +,- =MotorPower
 T =Touch



To MotorBoard



Rijnkade 15b
 1382 GS Weesp
 The Netherlands
 phone: 0294-418014
 fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project:

Cinemix

Title:

Connection

File:

cinemblk.sch

Date:

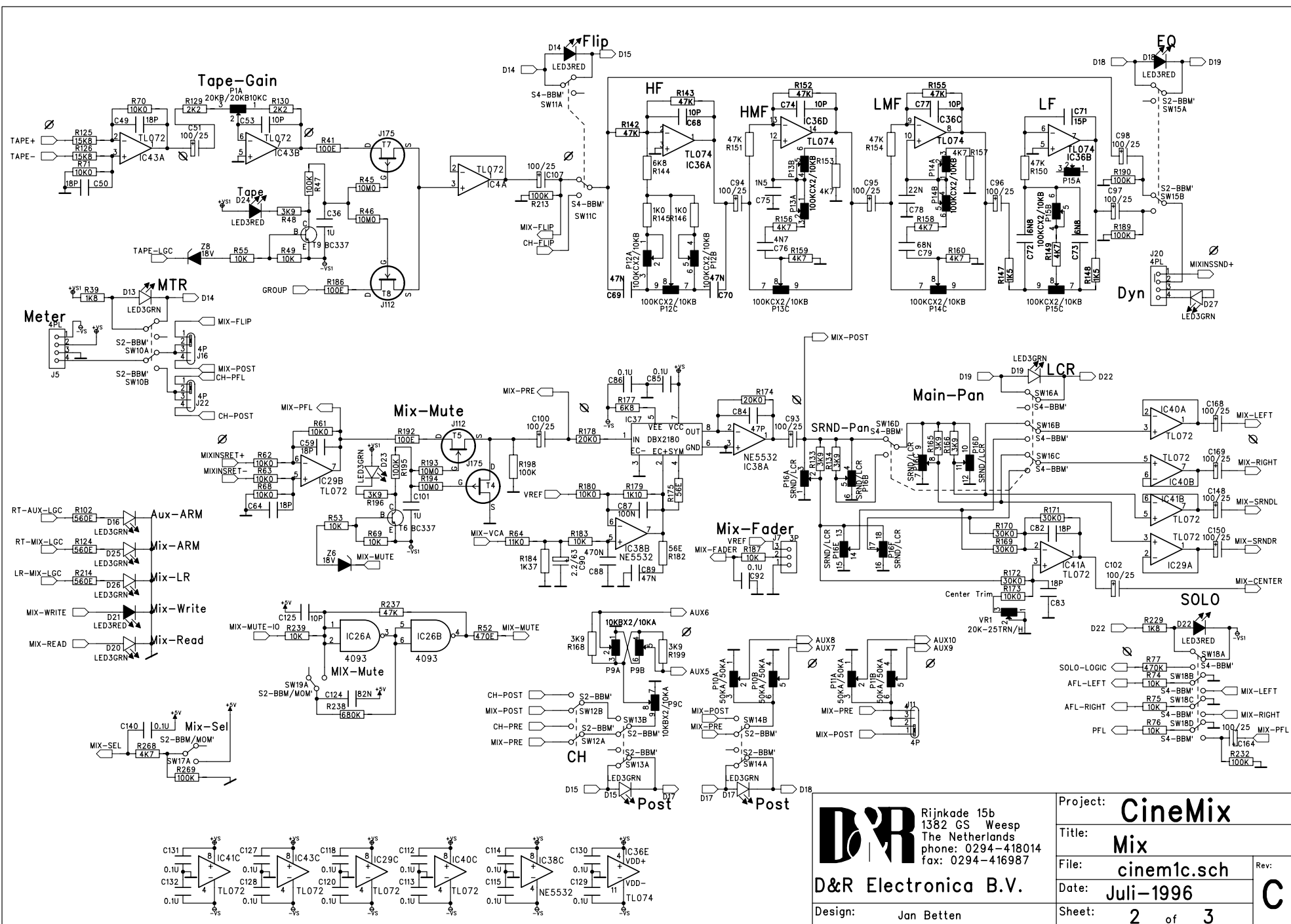
April-1996

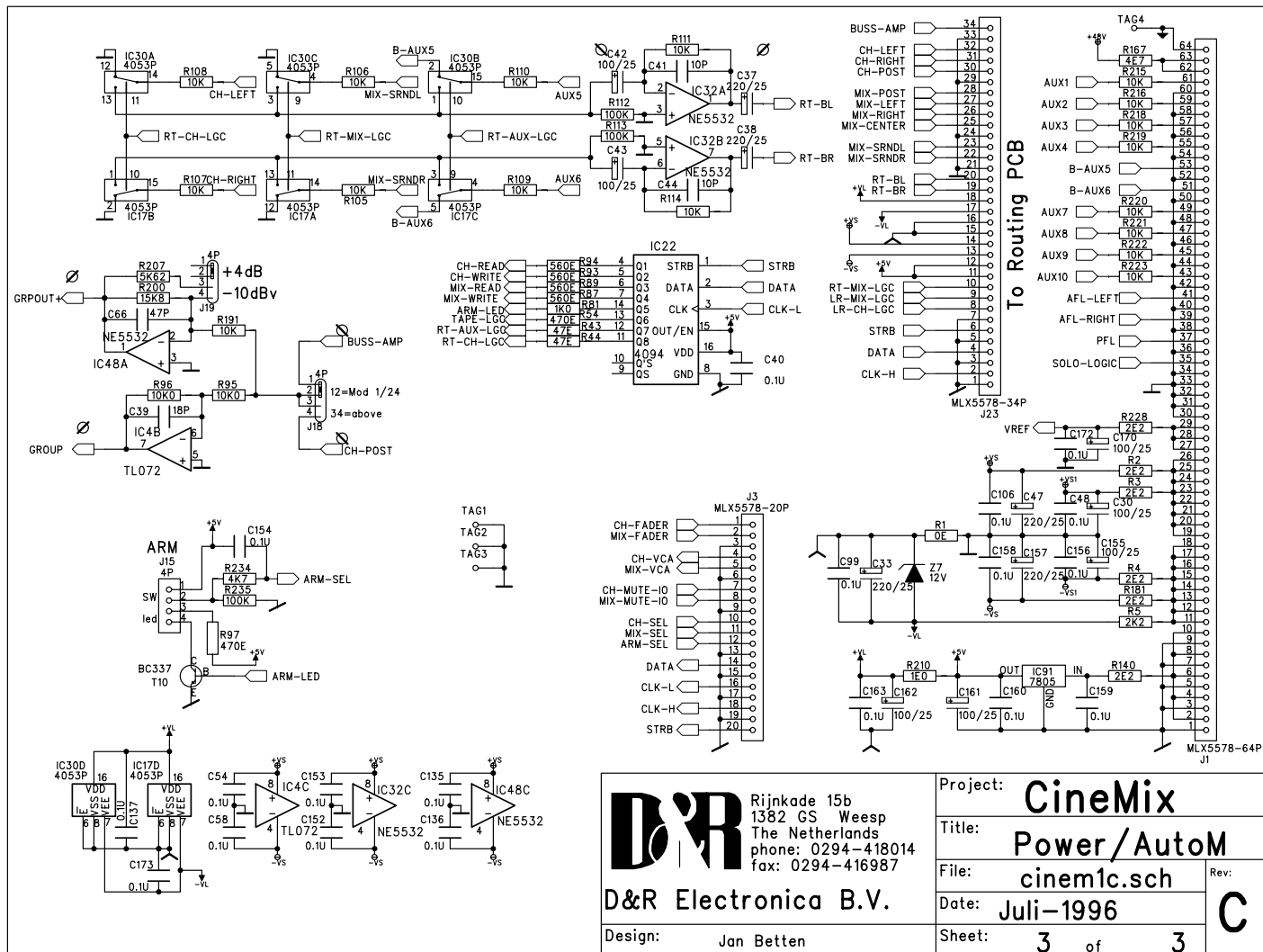
Sheet:

10 of 9

Rev:

P

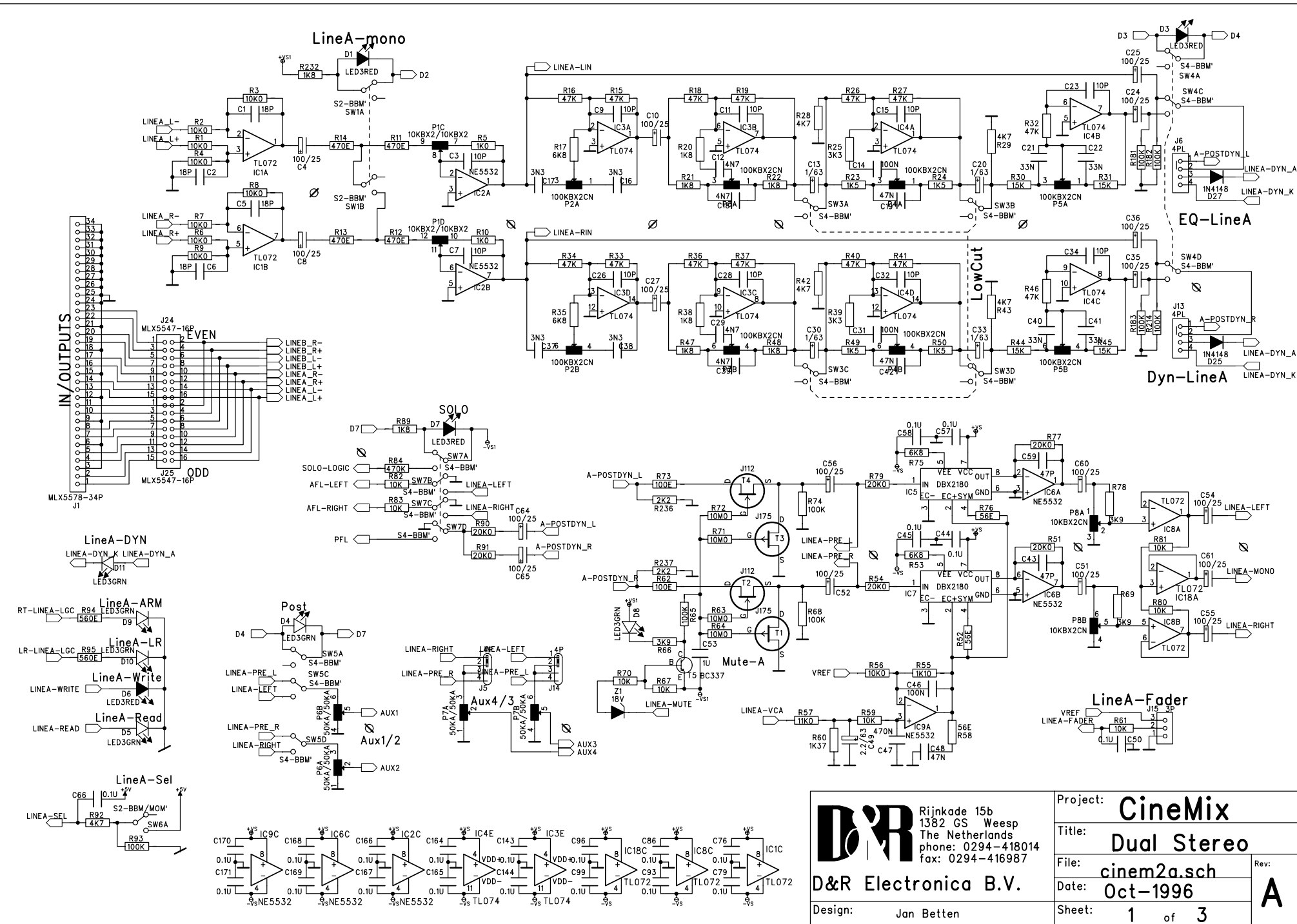





Riinkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

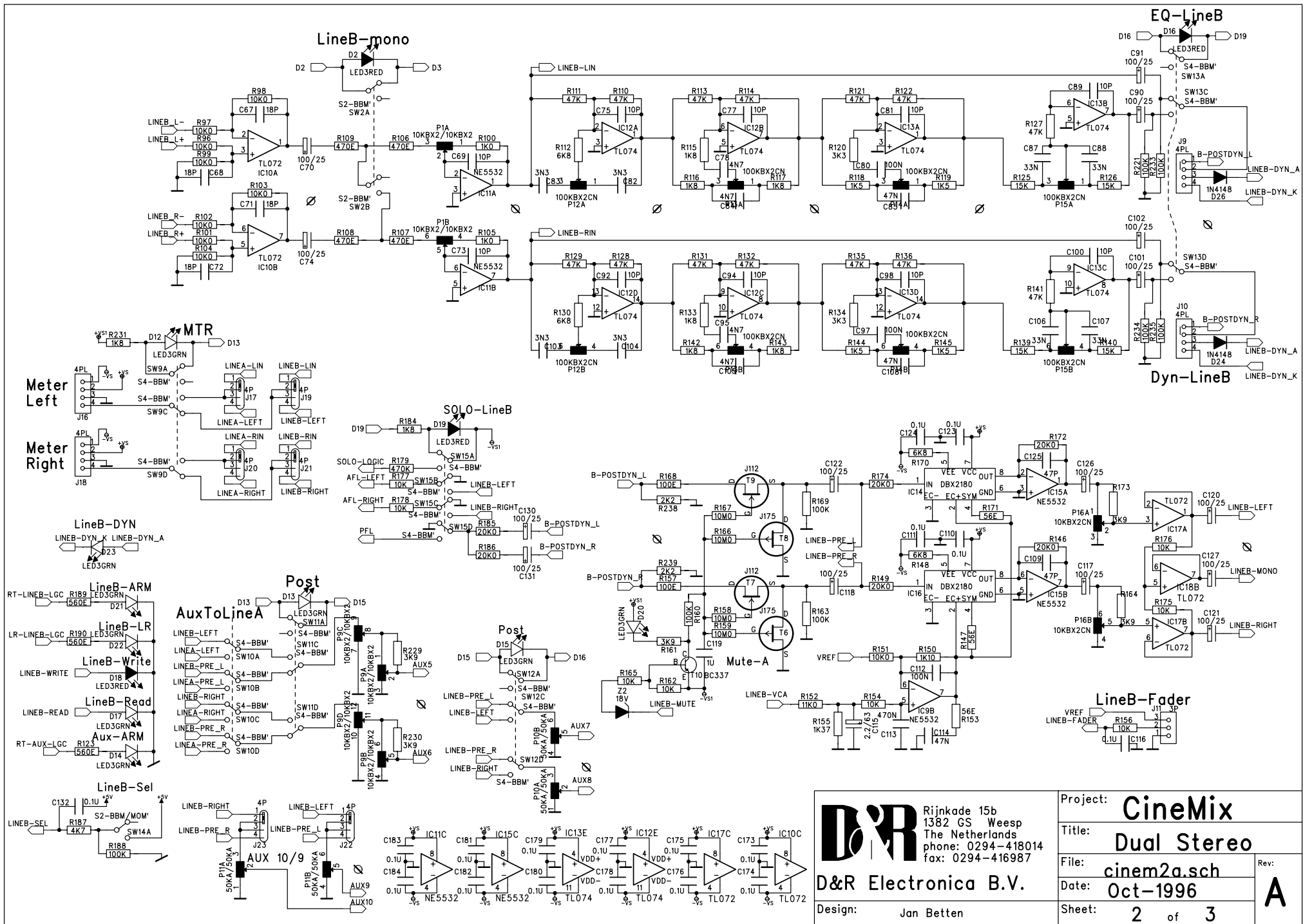
Design: Jan Betten




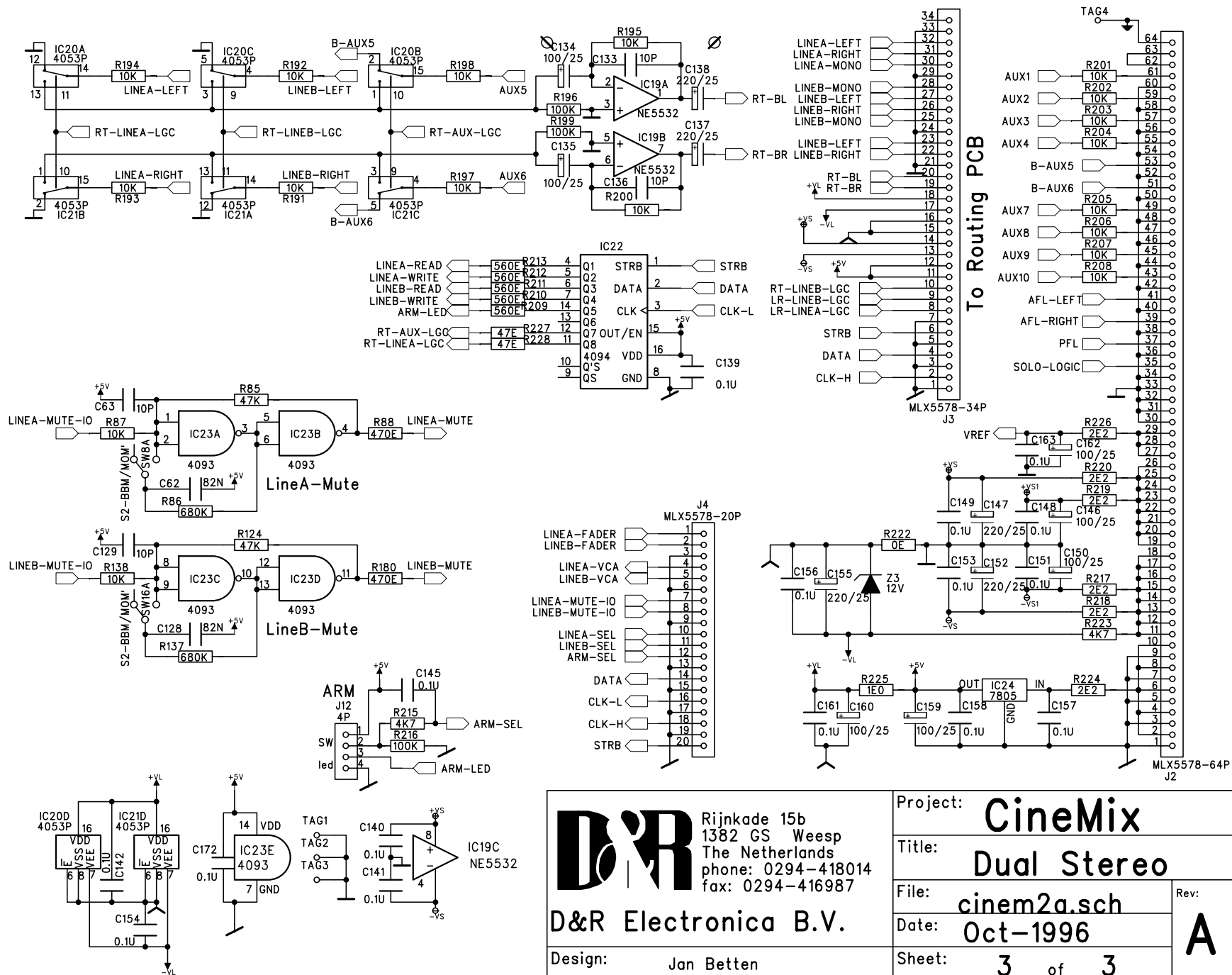
	Project: CineMix	
	Title: Dual Stereo	
	File: cinem2a.sch	Rev: A
	Date: Oct-1996	
	Sheet: 1 of 3	
Design: Jan Betten		

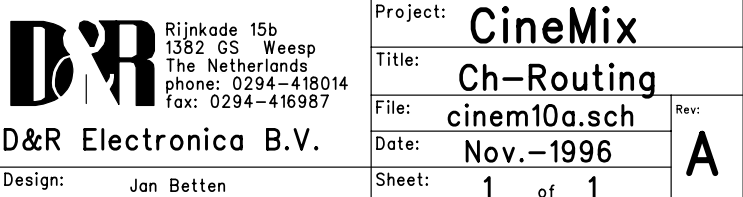
Rijnsdijk 15b
 1382 GS Weesp
 The Netherlands
 phone: 0294-418014
 fax: 0294-416987

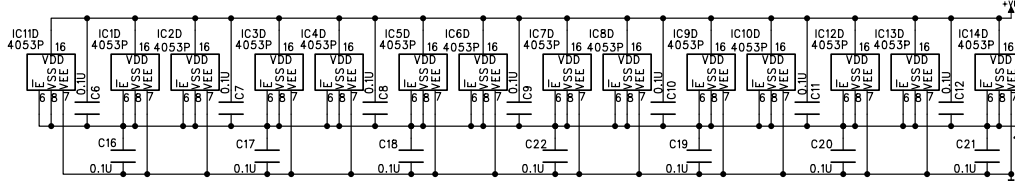
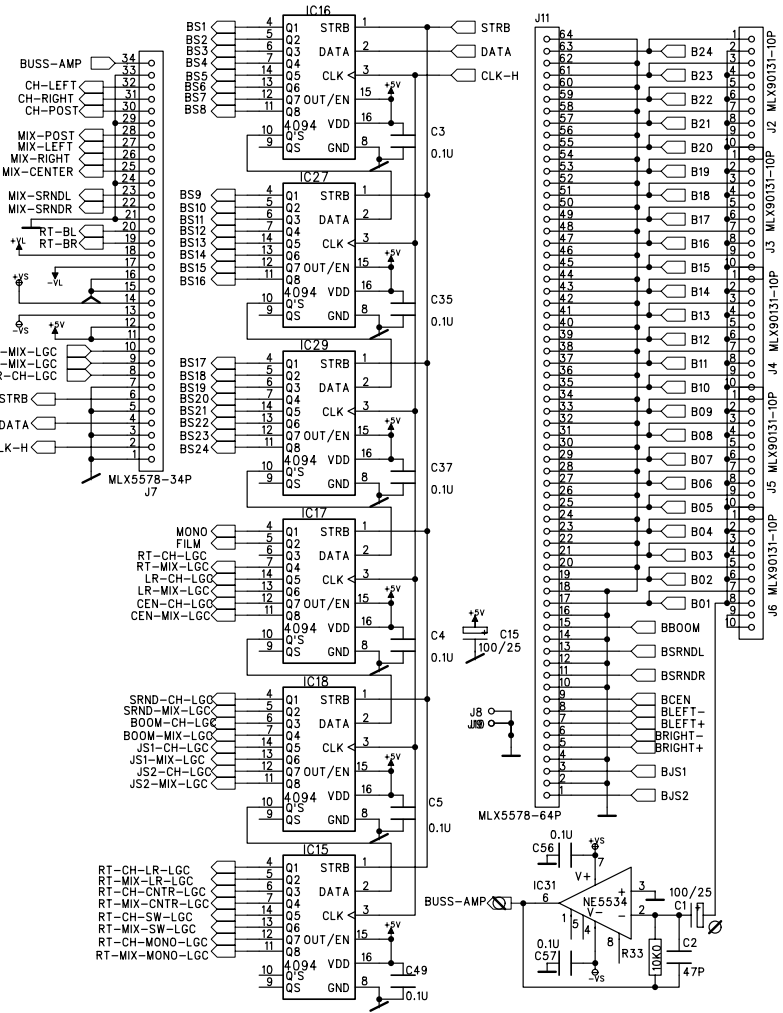
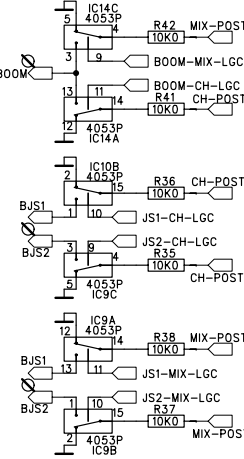
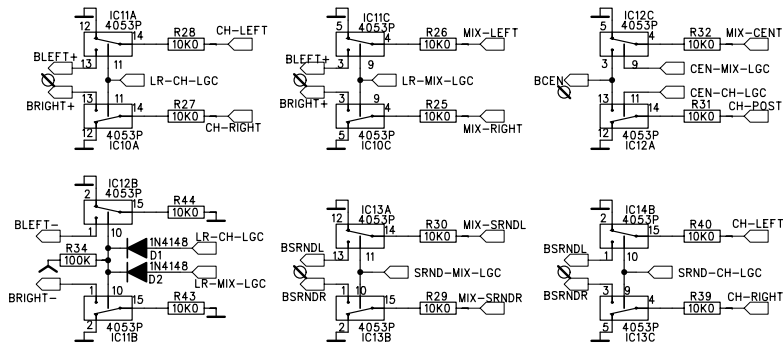
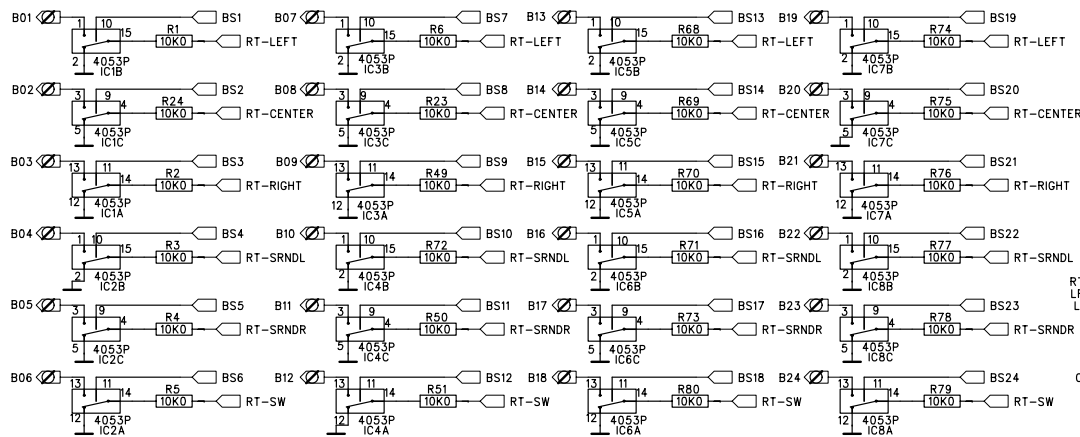
D&R Electronica B.V.




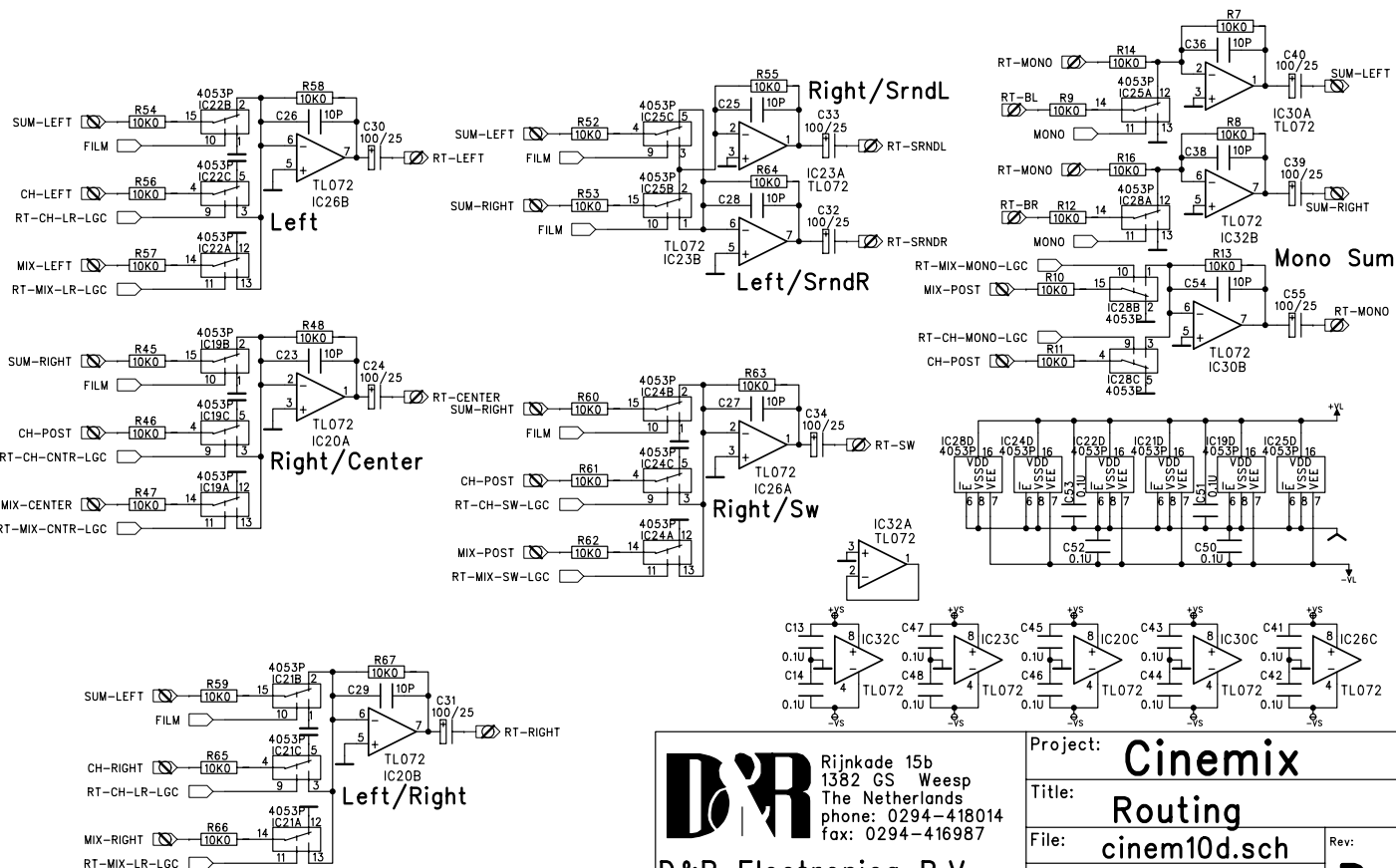
	Rijnsdijk 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987		Project:	CineMix	
	D&R Electronica B.V.		Title:	Dual Stereo	
	Design: Jan Betten		File:	cinem2a.sch	Rev:
			Date:	Oct-1996	A
			Sheet:	2 of 3	







 Rijnkade 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987		Project: CineMix	
		Title: Ch-Routing	
Design: Jan Betten		File: cinem10d.sch	Rev: D
		Date: 12-05-1998	
		Sheet: 1 of 2	



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project: **Cinemix**

Title: **Routing**

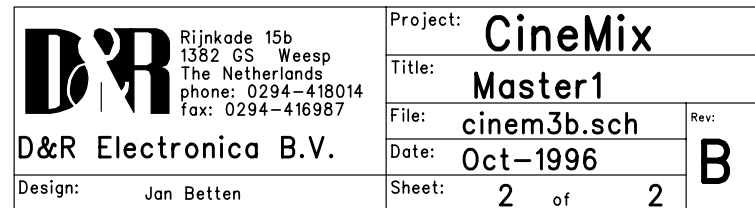
File: **cinem10d.sch**

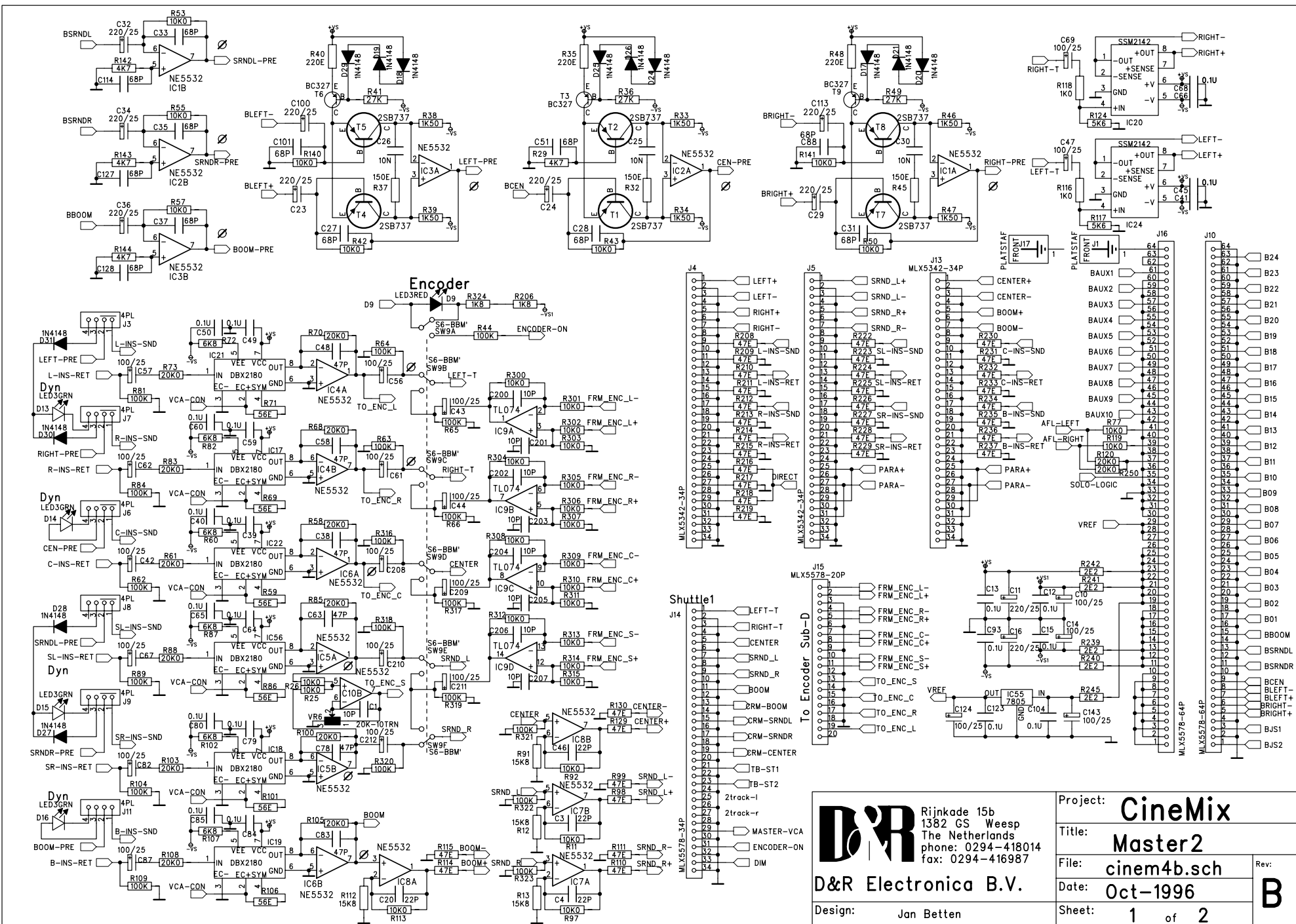
Date: **16-03-1998**

Sheet: **2 of 2**

Rev:

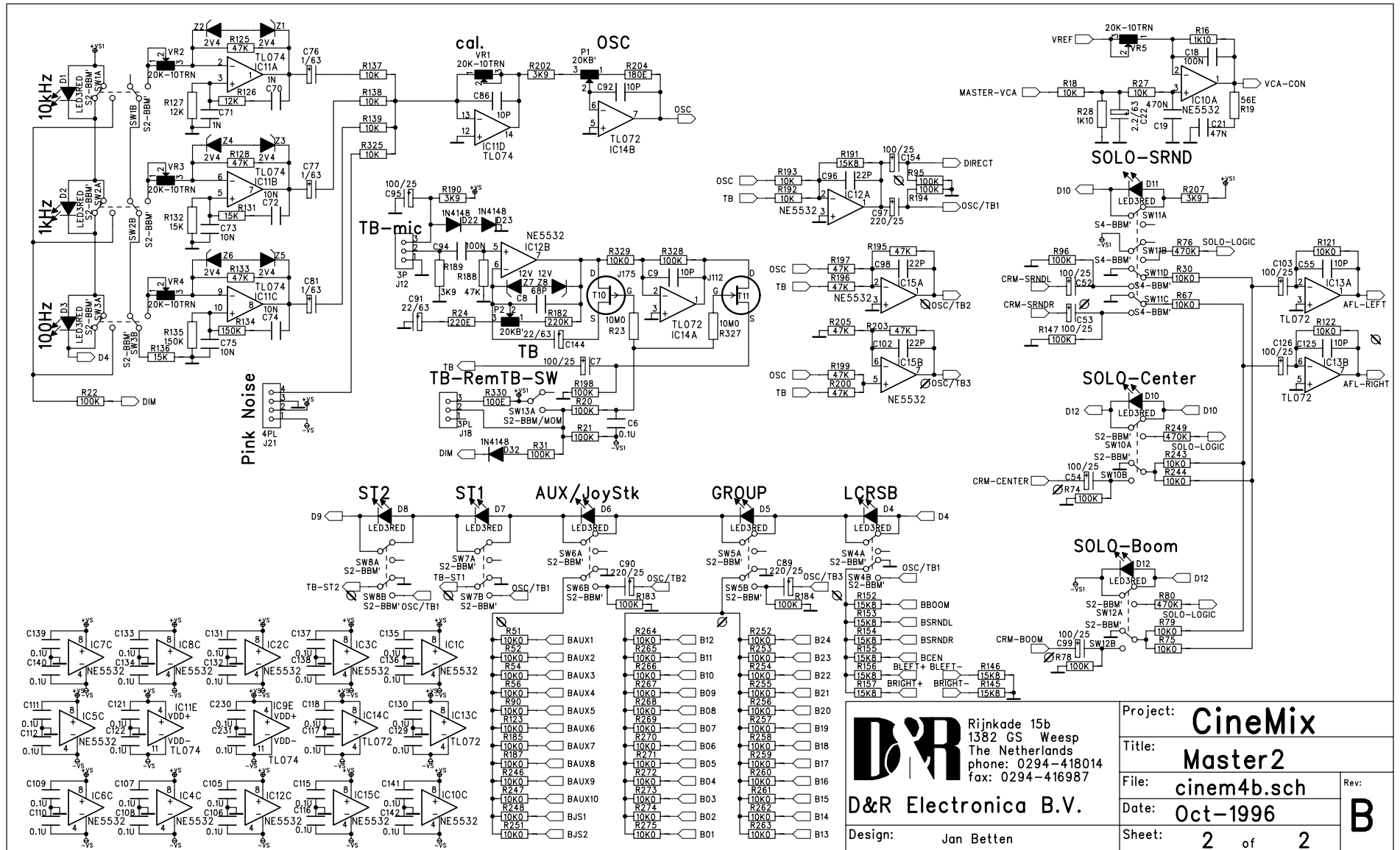
D

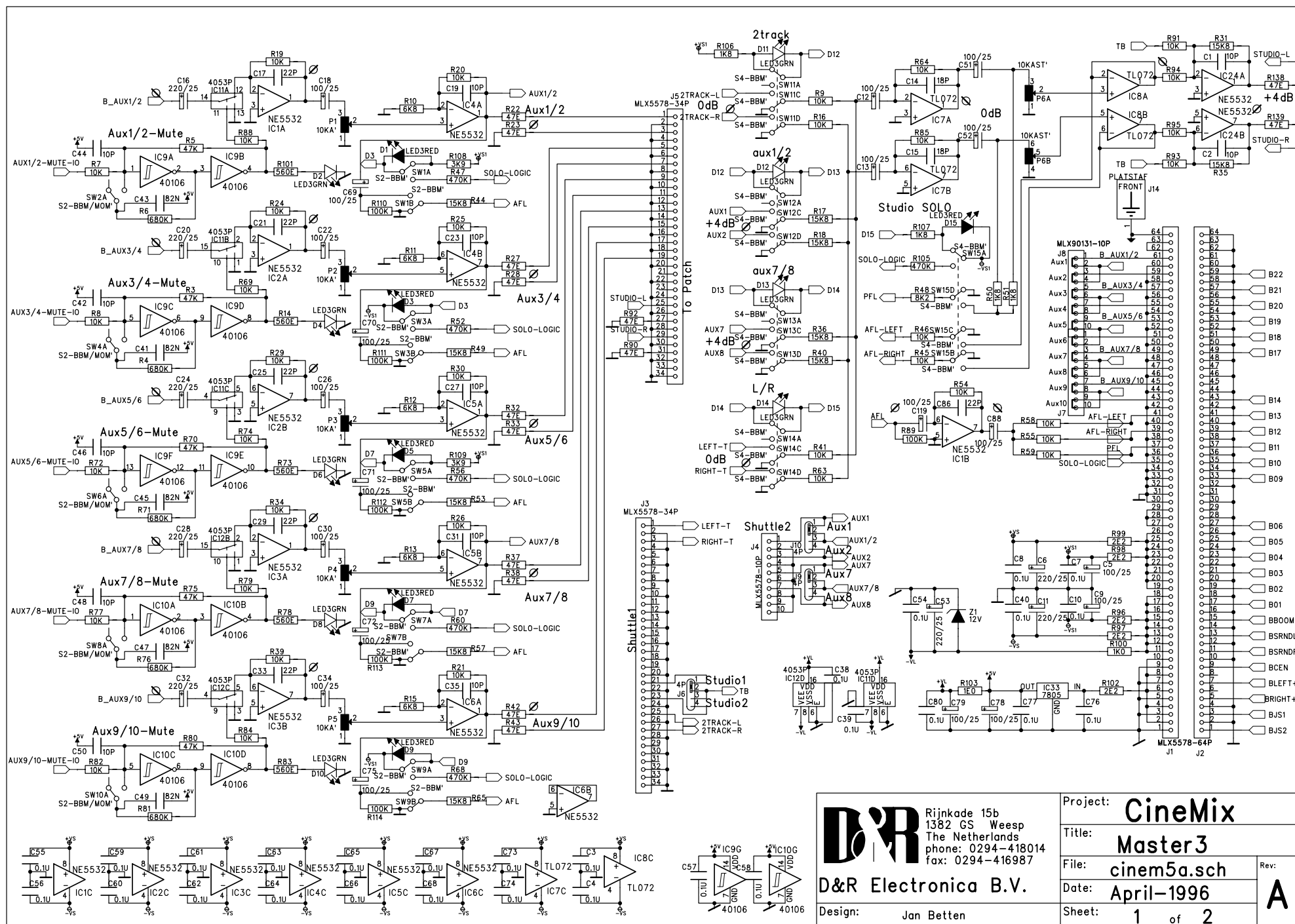





D&R Rijkswijk 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

Project:	CineMix	Rev: B
Title:	Master2	
File:	cinem4b.sch	
Date:	Oct-1996	
Sheet:	1 of 2	







Rijkswijkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronics B.V.

Design: Jan Betten

Project: **CineMix**

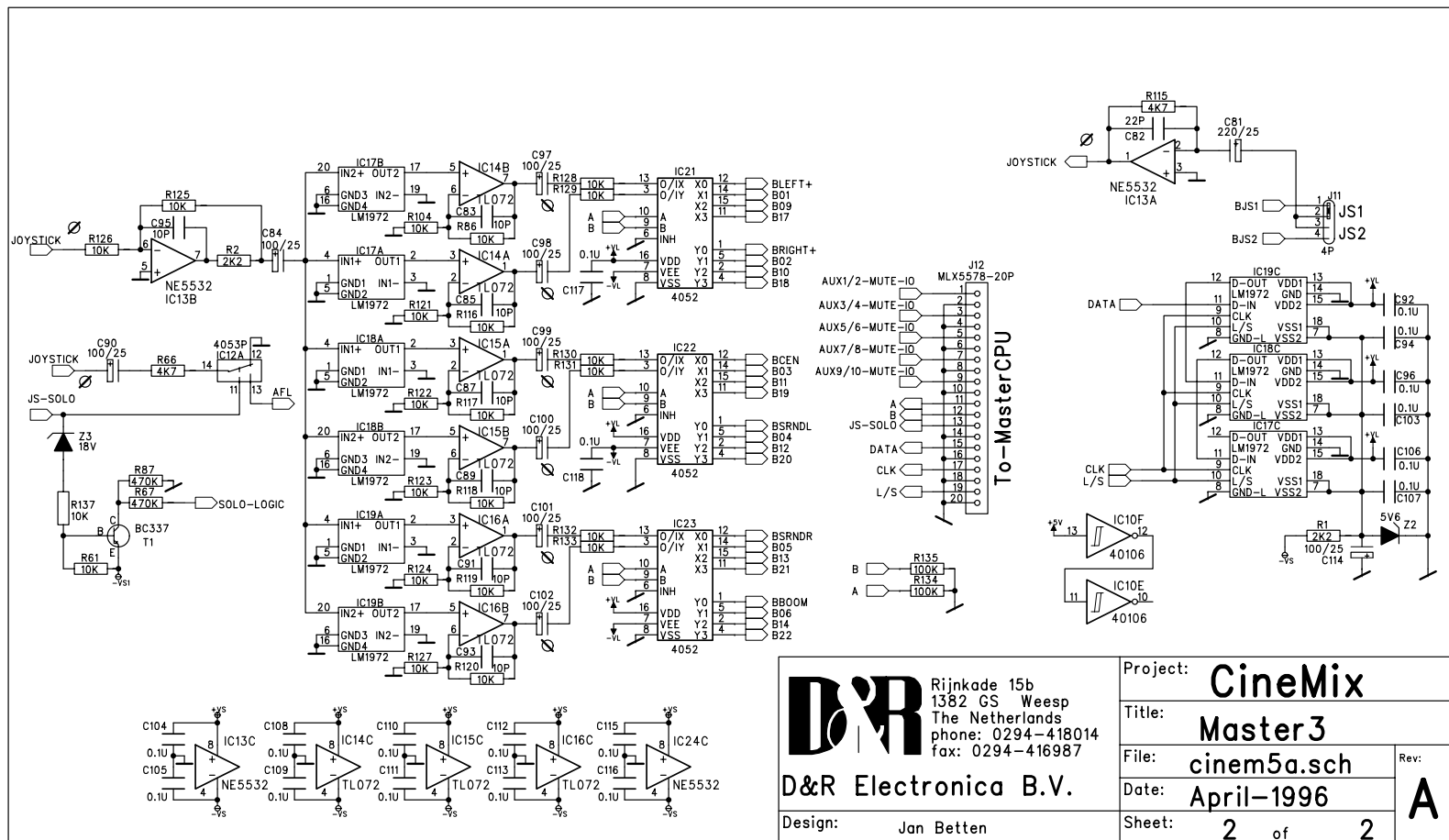
Title: **Master3**

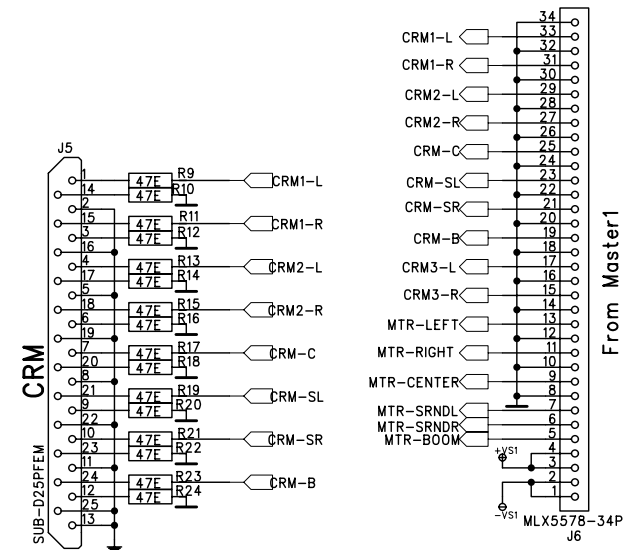
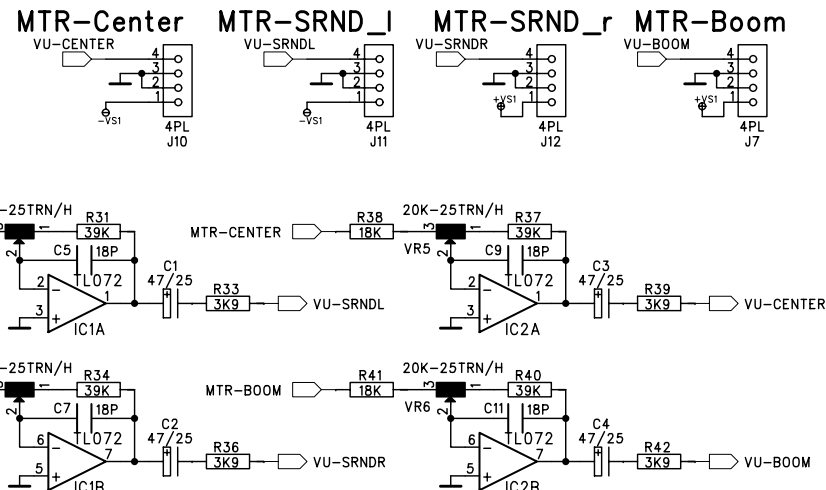
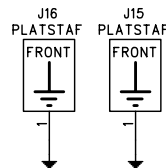
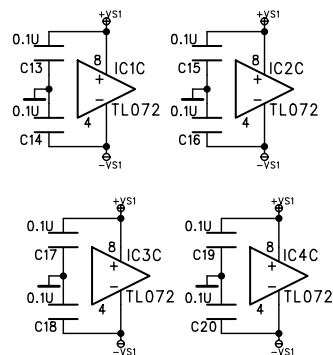
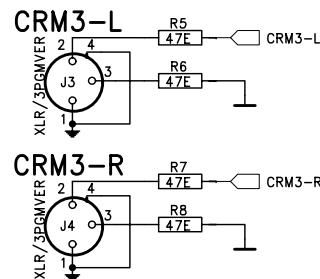
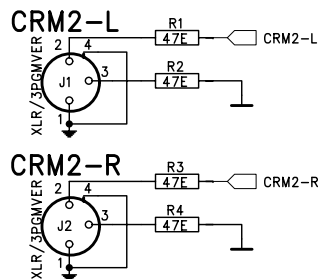
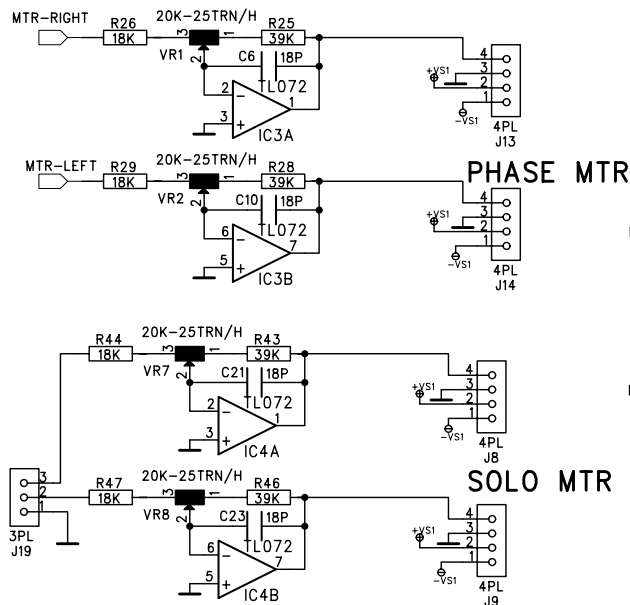
File: **cinem5a.sch**

Date: **April-1996**

Sheet: **1 of 2**

Rev: **A**





D&R Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project: **CineMix**

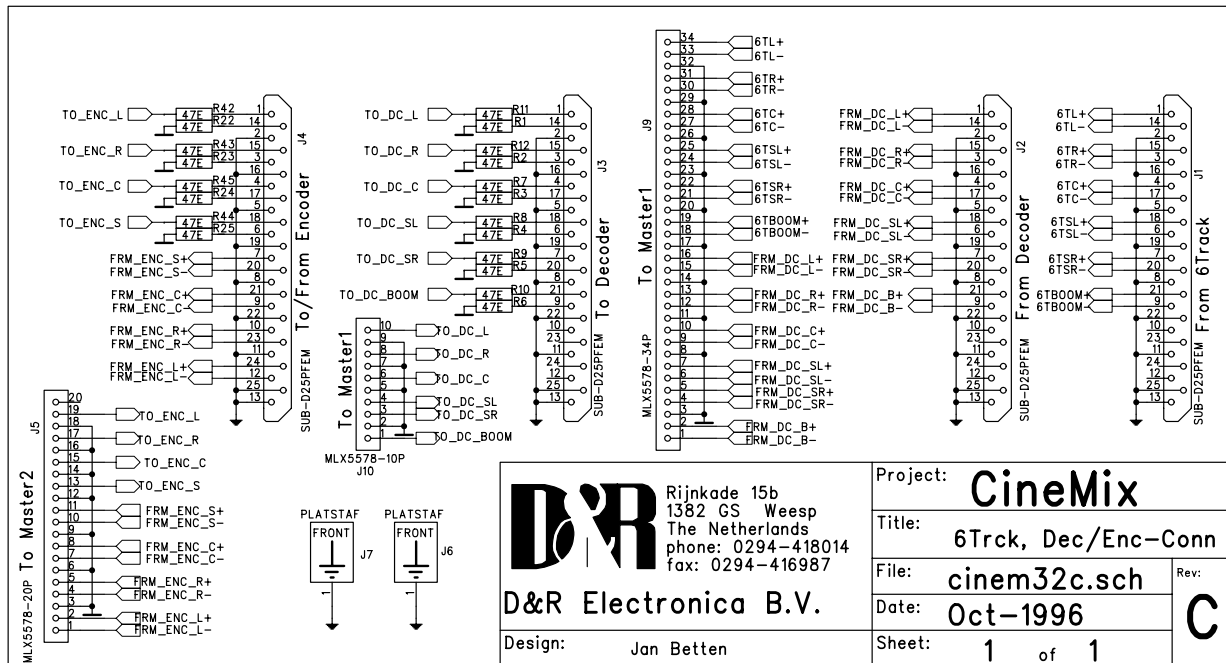
Title: **CRM/MTR-Conn.**

File: **CINEM31b.sch**

Date: **Nov.-1995**

Sheet: **1 of 1**

Rev: **B**

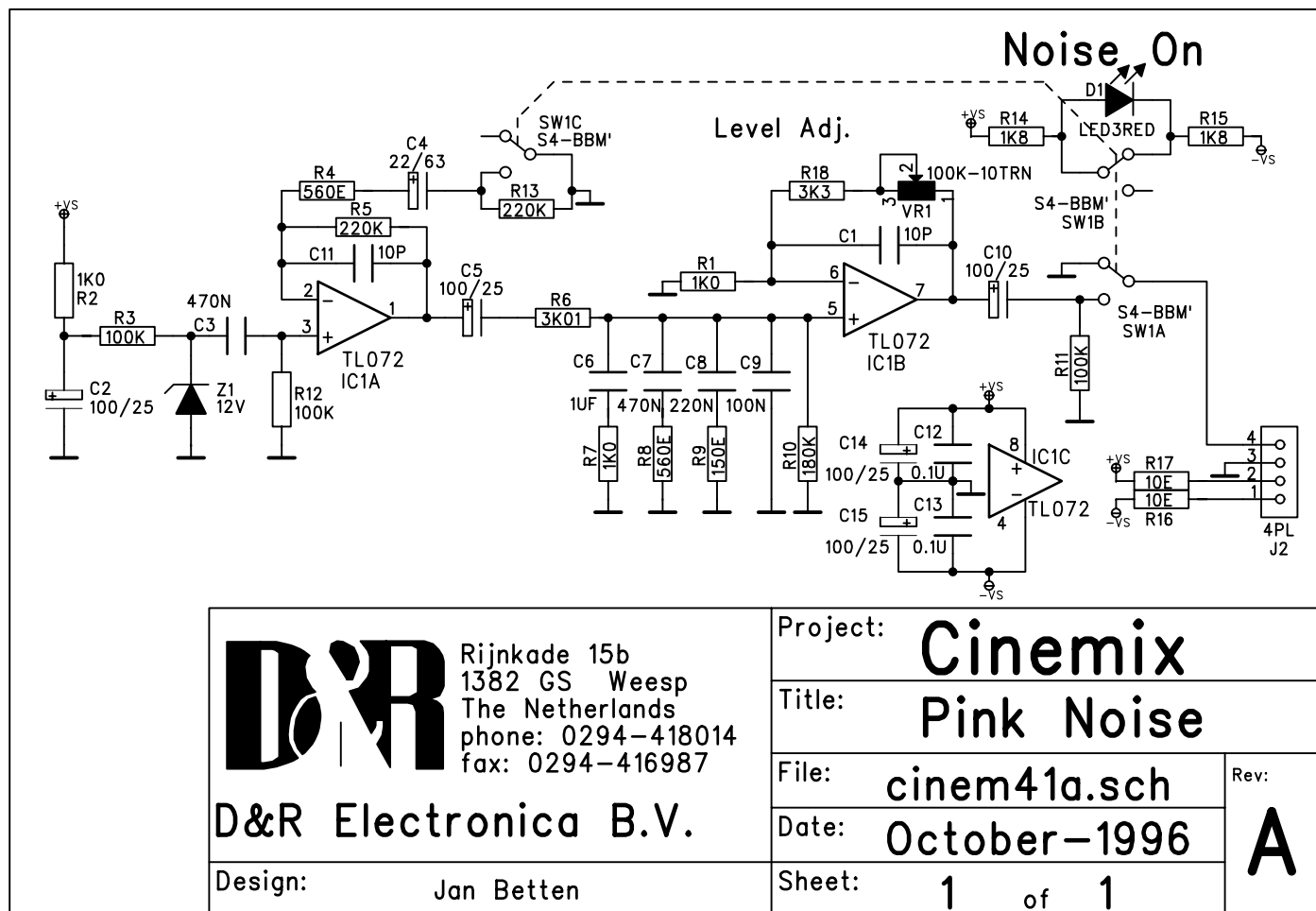


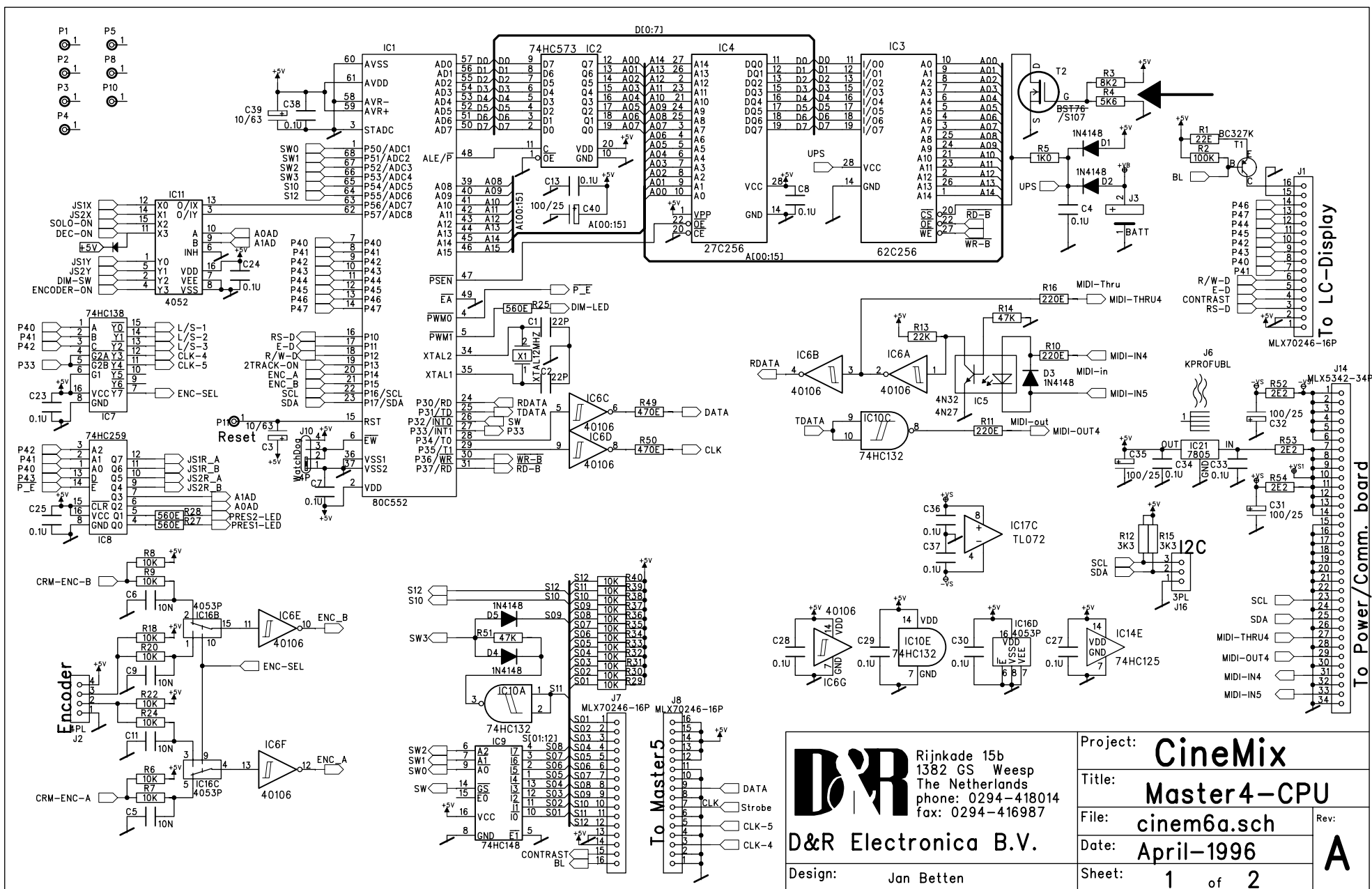
D&R Riijkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987


D&R Electronica B.V.

Design: Jan Betten

Project:	CineMix	
Title:	6Trck, Dec/Enc-Conn	
File:	cinem32c.sch	Rev:
Date:	Oct-1996	C
Sheet:	1 of 1	





 Rijnkade 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987		Project: CineMix	
		Title: Master4-CPU	
File: cinem6a.sch		Rev: A	
Date: April-1996			
Sheet: 1 of 2			

Design: Jan Betten



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design:	Jan Betten
---------	------------

Project:	CineMix
Title:	Master4-CPU

File: **cinem6a.sch**

Date: April-1996

Sheet: 2 of 2

Rev:	A
------	---





D&R Electronica B.V.

CineMix

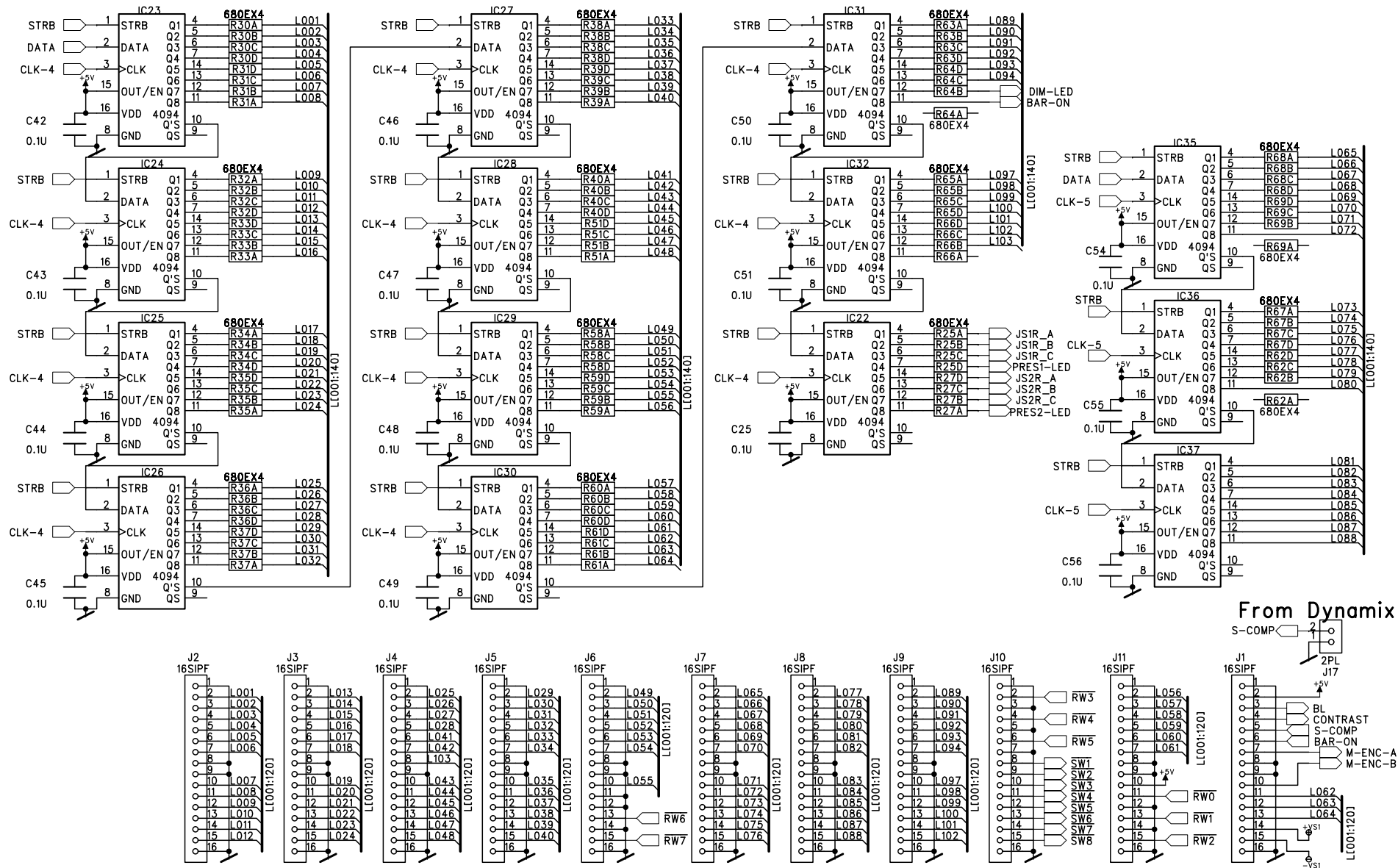
Master4-CPU

cinem6c.sch

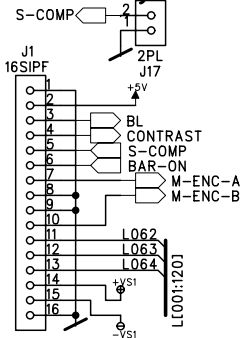
29-2-1998

2 of 3

C



From Dynamix



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project:

Cinemix

Title:

Master4-CPU

File:

cinem6c.sch

Rev:

Date:

29-2-1998

Sheet:

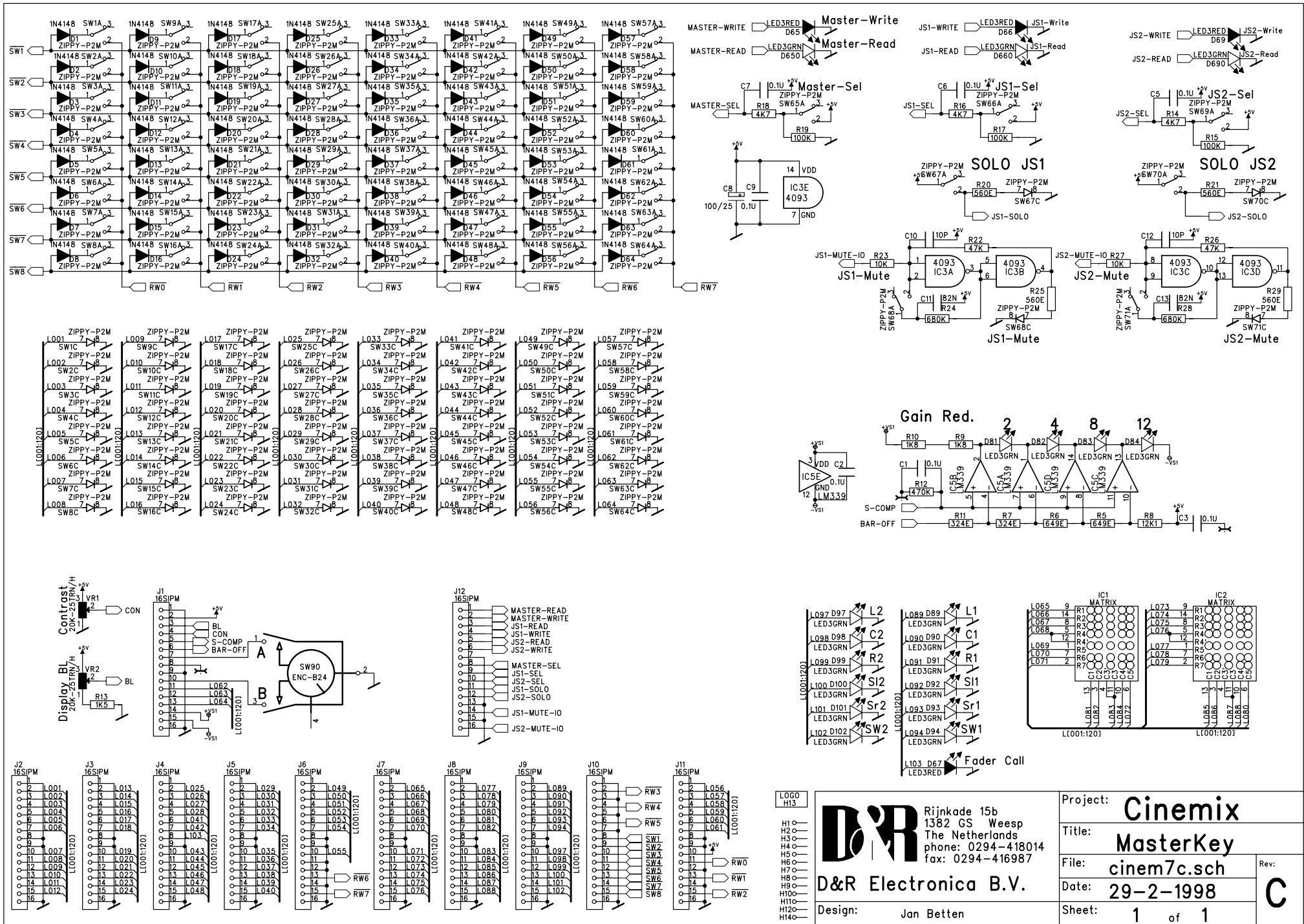
3 of 3

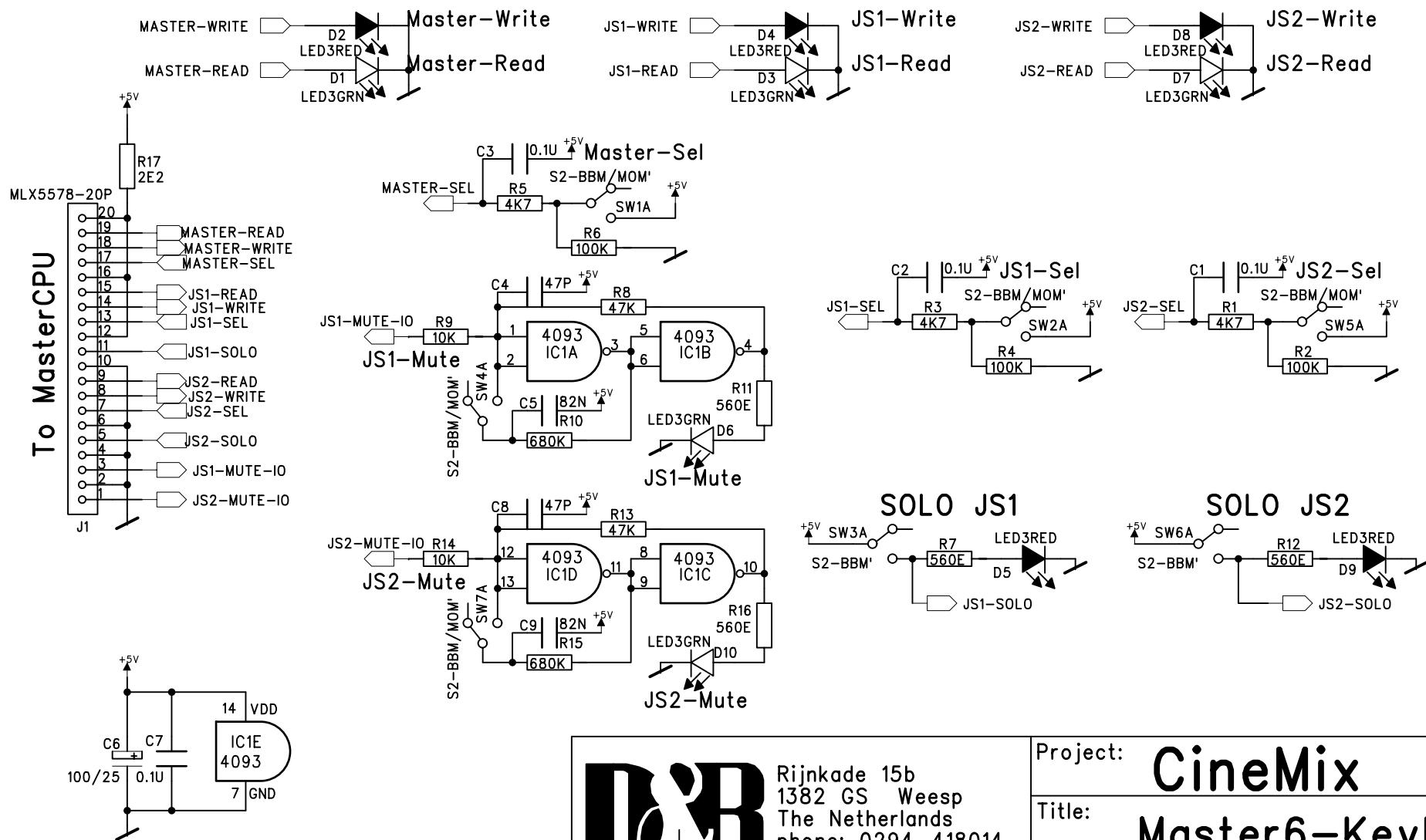
C



D&R Electronica B.V.

Project:	CineMix		Rev: A
Title:	Master5-keyb1		
File:	cinem7a.sch		
Date:	April-1996		
Sheet:	1	of 1	



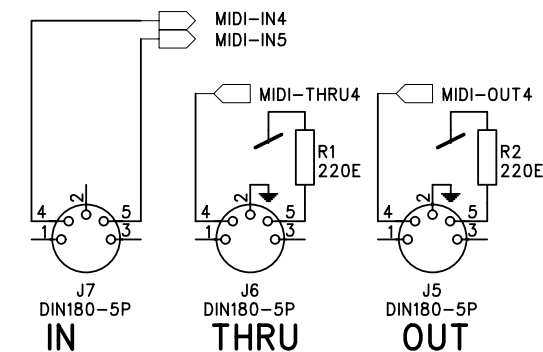


Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

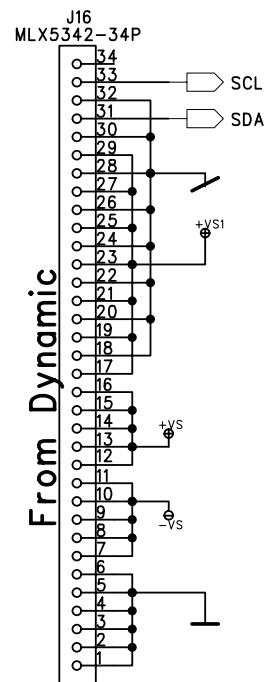
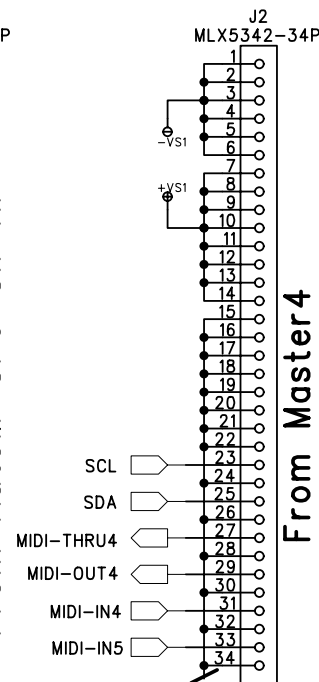
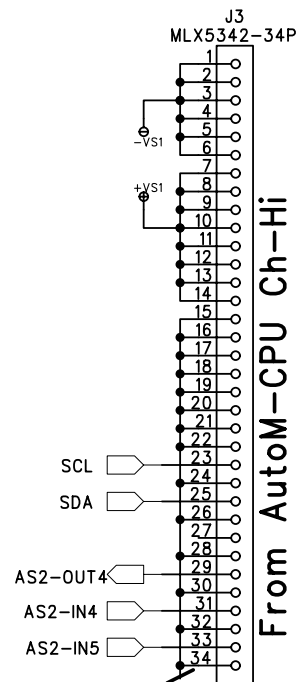
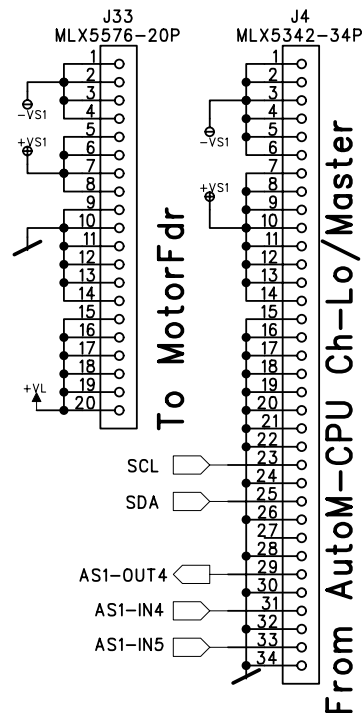
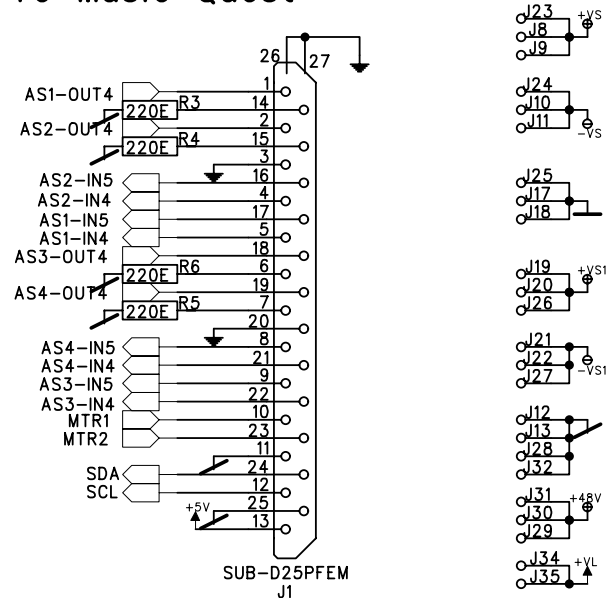
D&R Electronica B.V.

Design: Jan Betten

Project: CineMix	
Title: Master6-Keyb2	
File: cinem8a.sch	Rev: A
Date: Jan.-1996	
Sheet: 1 of 1	



To Music Quest



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project: **CineMix**

Title: **AS-Con./DigPower**

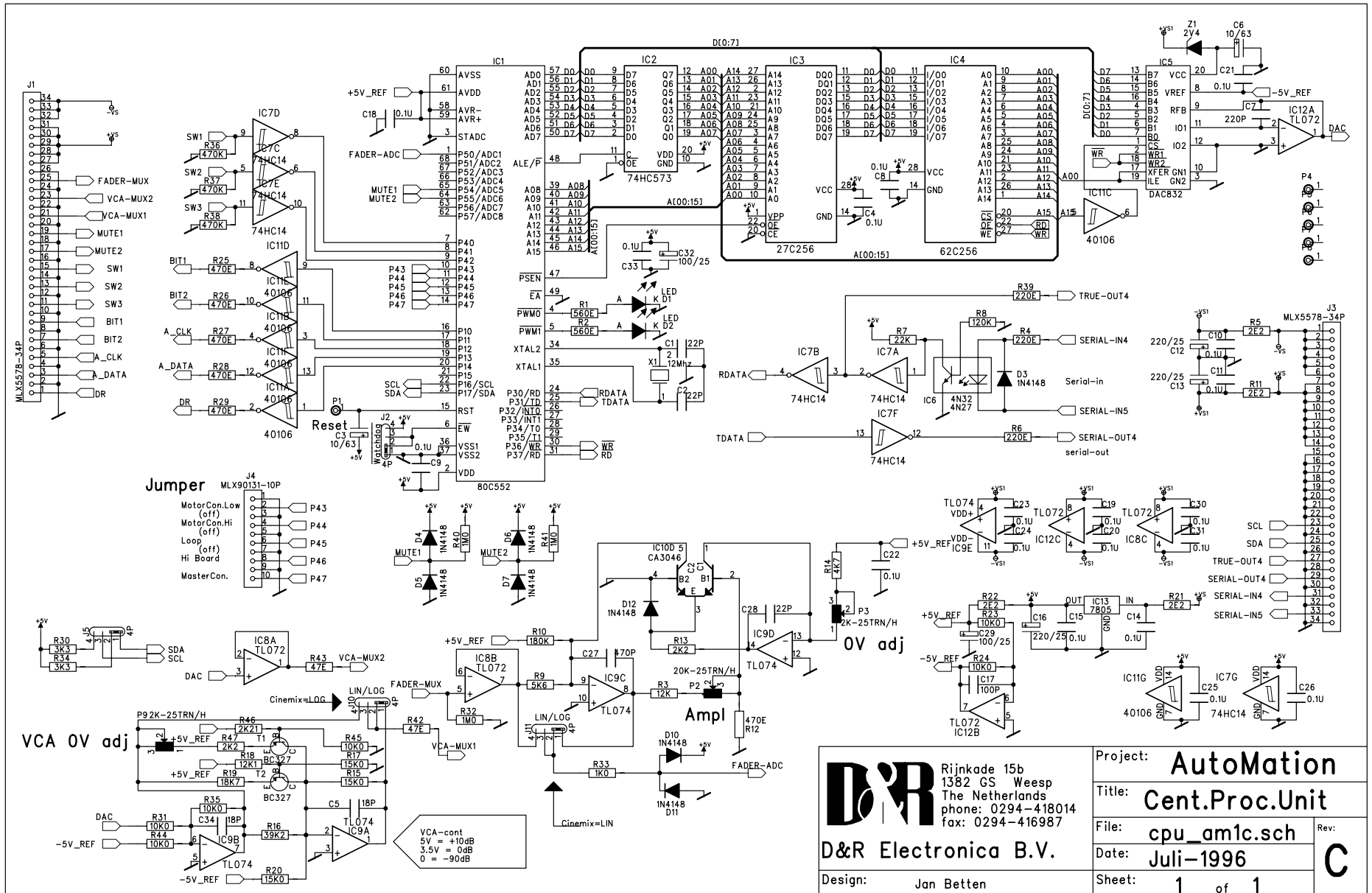
File: **cinem9b.sch**

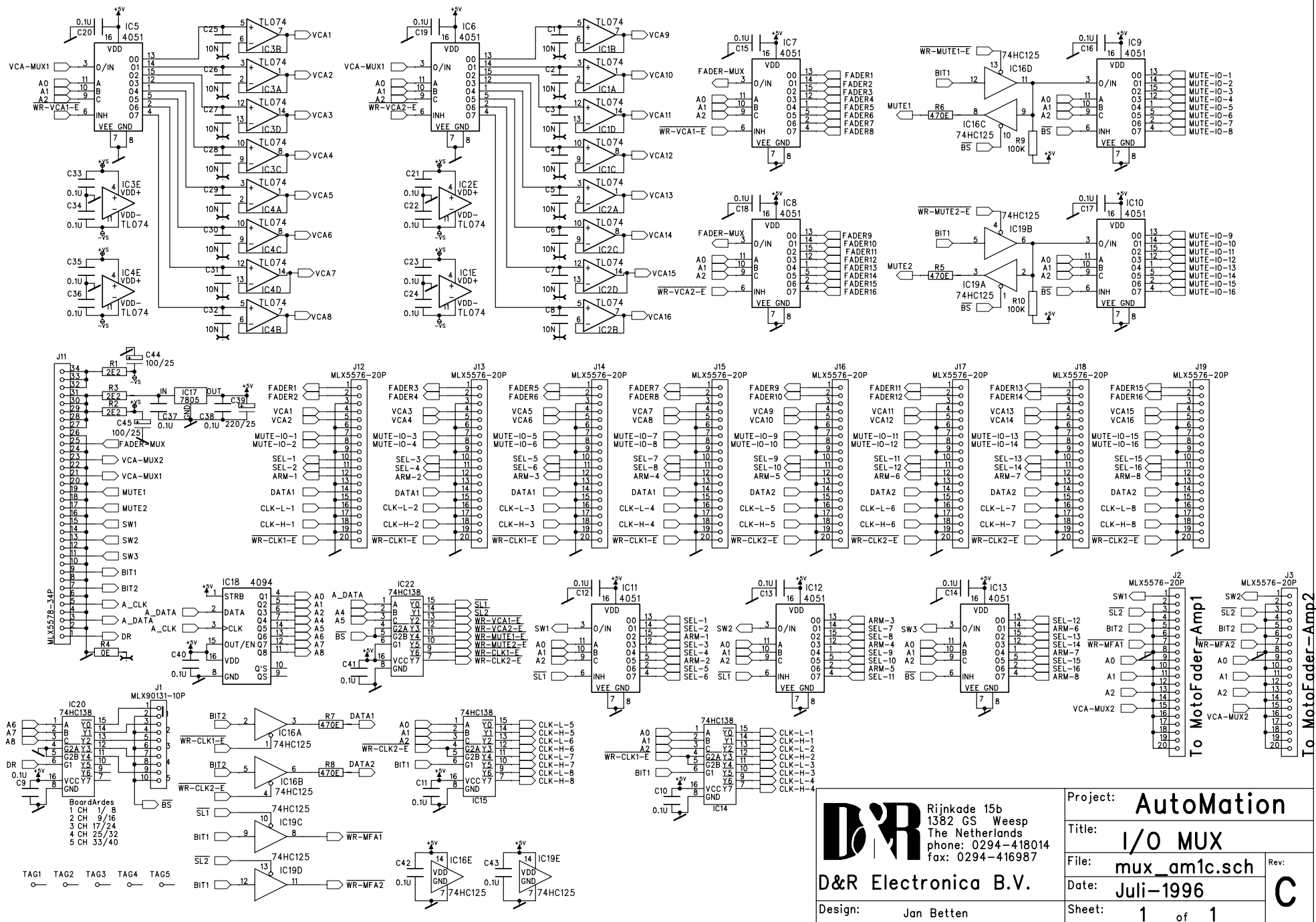
Date: **April-1996**

Sheet: **1 of 1**

Rev:

B

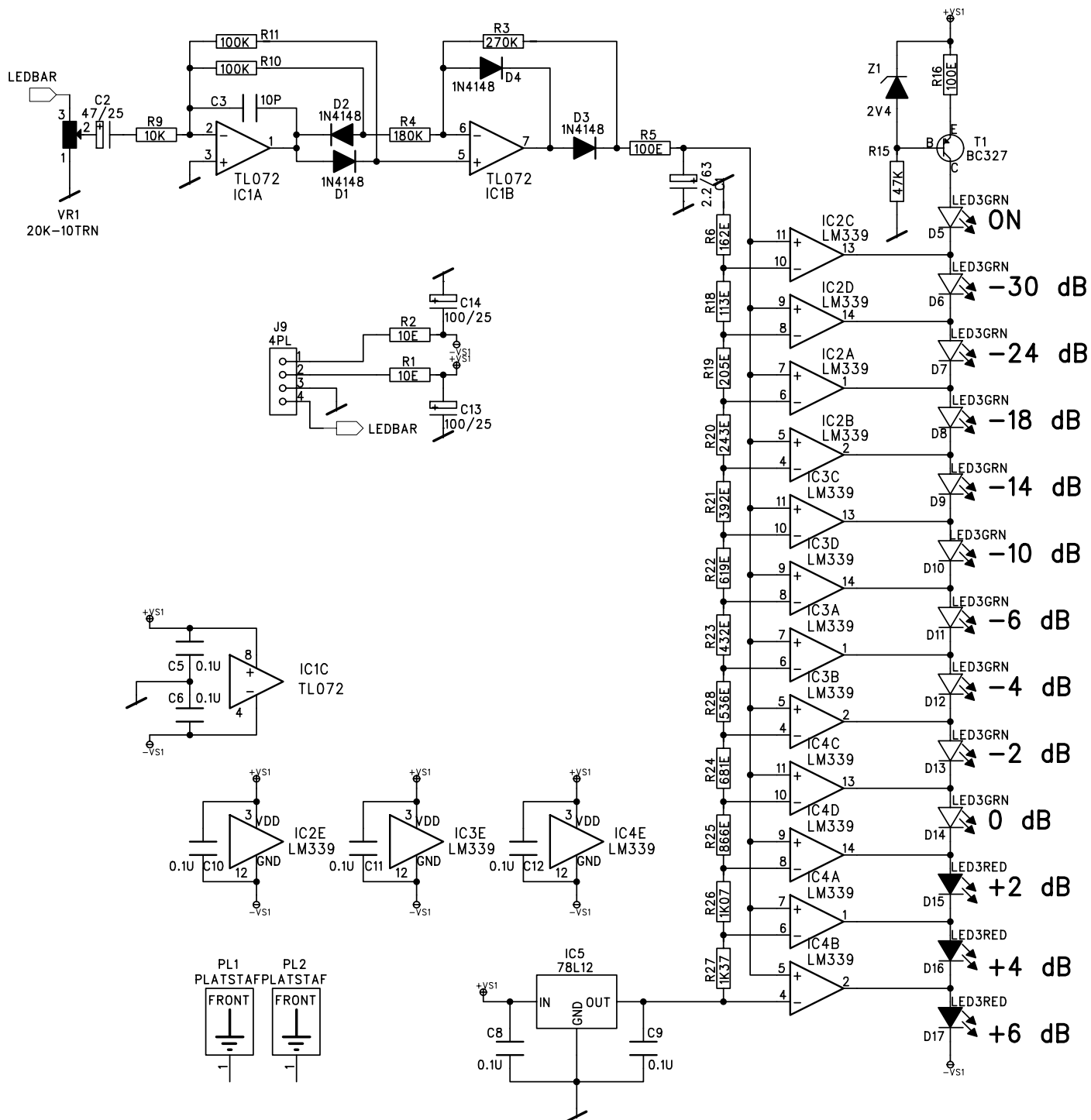




D&R Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten



lb13-1d.sch



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 02940-18014
fax: 02940-16987

D&R Electronica B.V.

Title:

ledbar 13

Date:

12-11-1996

Rev:

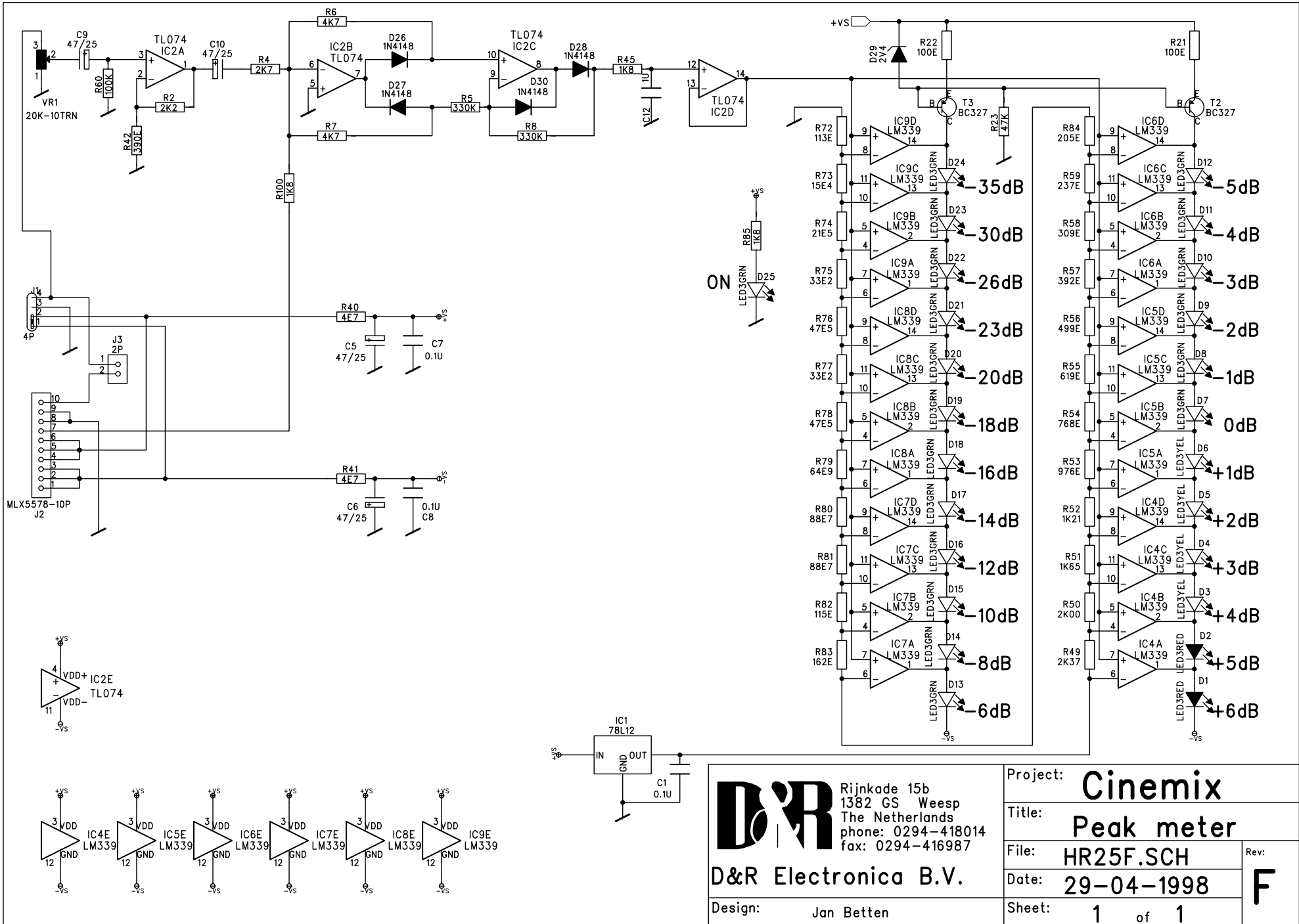
Sheet:

1 of 1

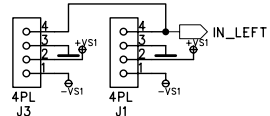
D

Design:

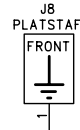
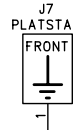
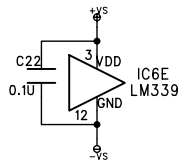
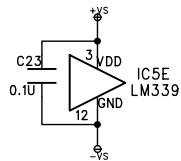
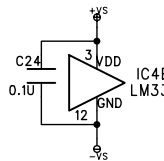
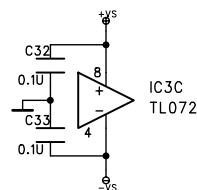
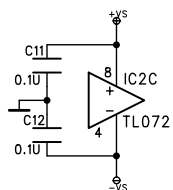
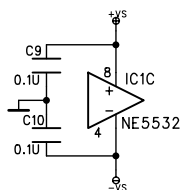
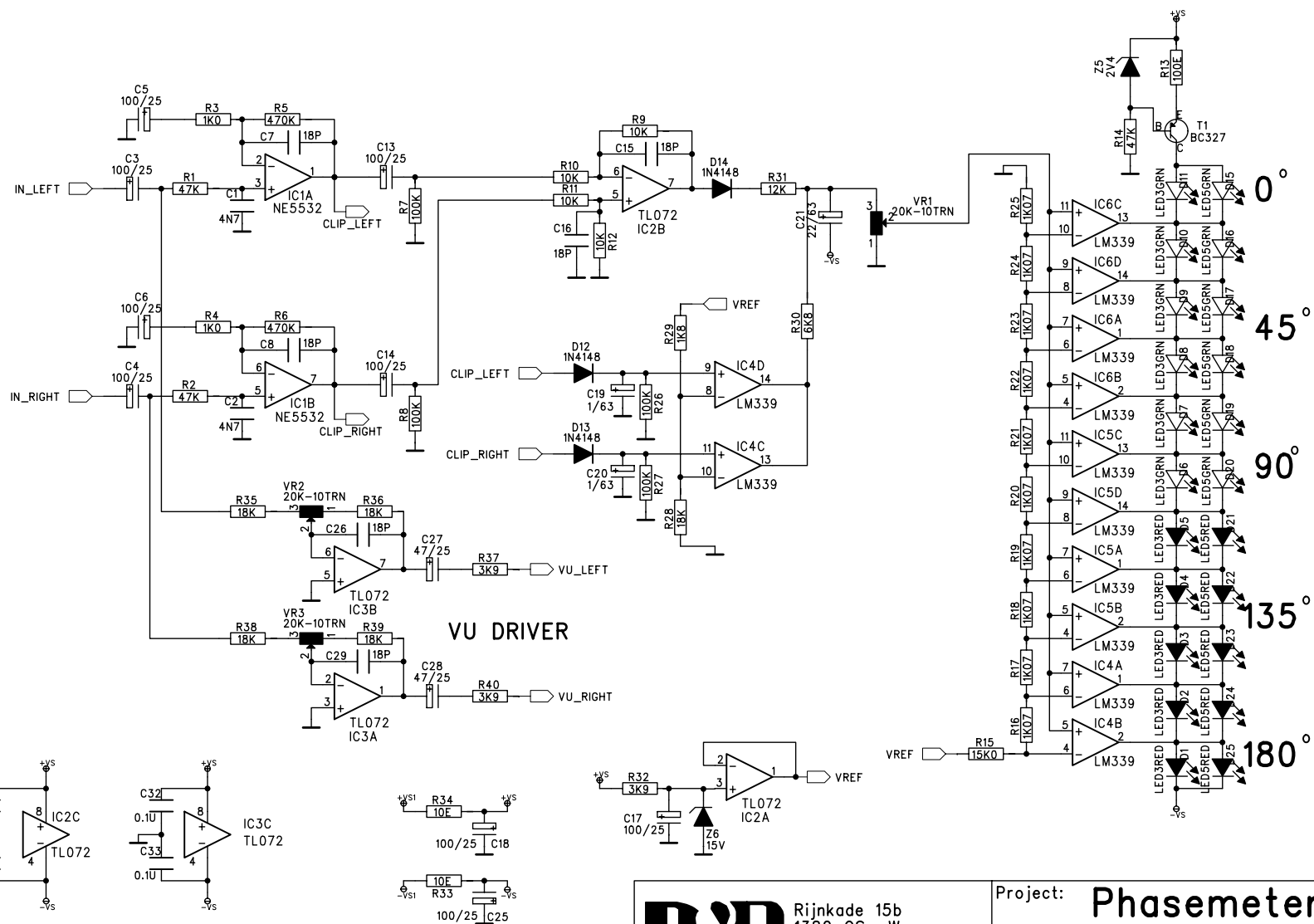
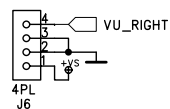
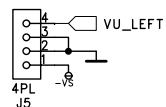
E.v.d.Krans



INPUT TO LEDBAR



TO VU METERS



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronics B.V.

Design: E.v.d.Krans

Project: **Phasemeter**

Title: **Phase**

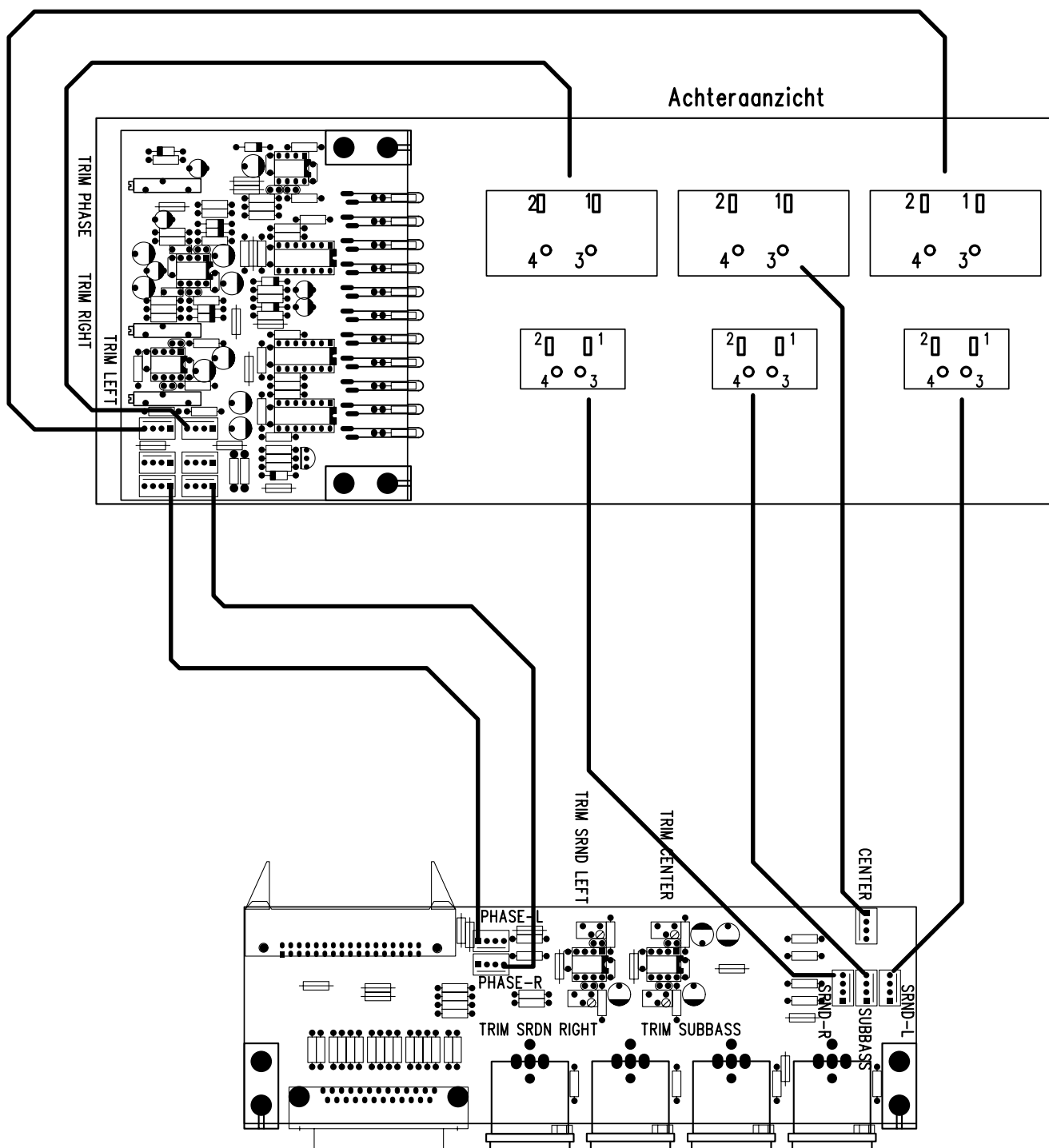
File: **PHASE.SCH**

Date: **12-02-1996**

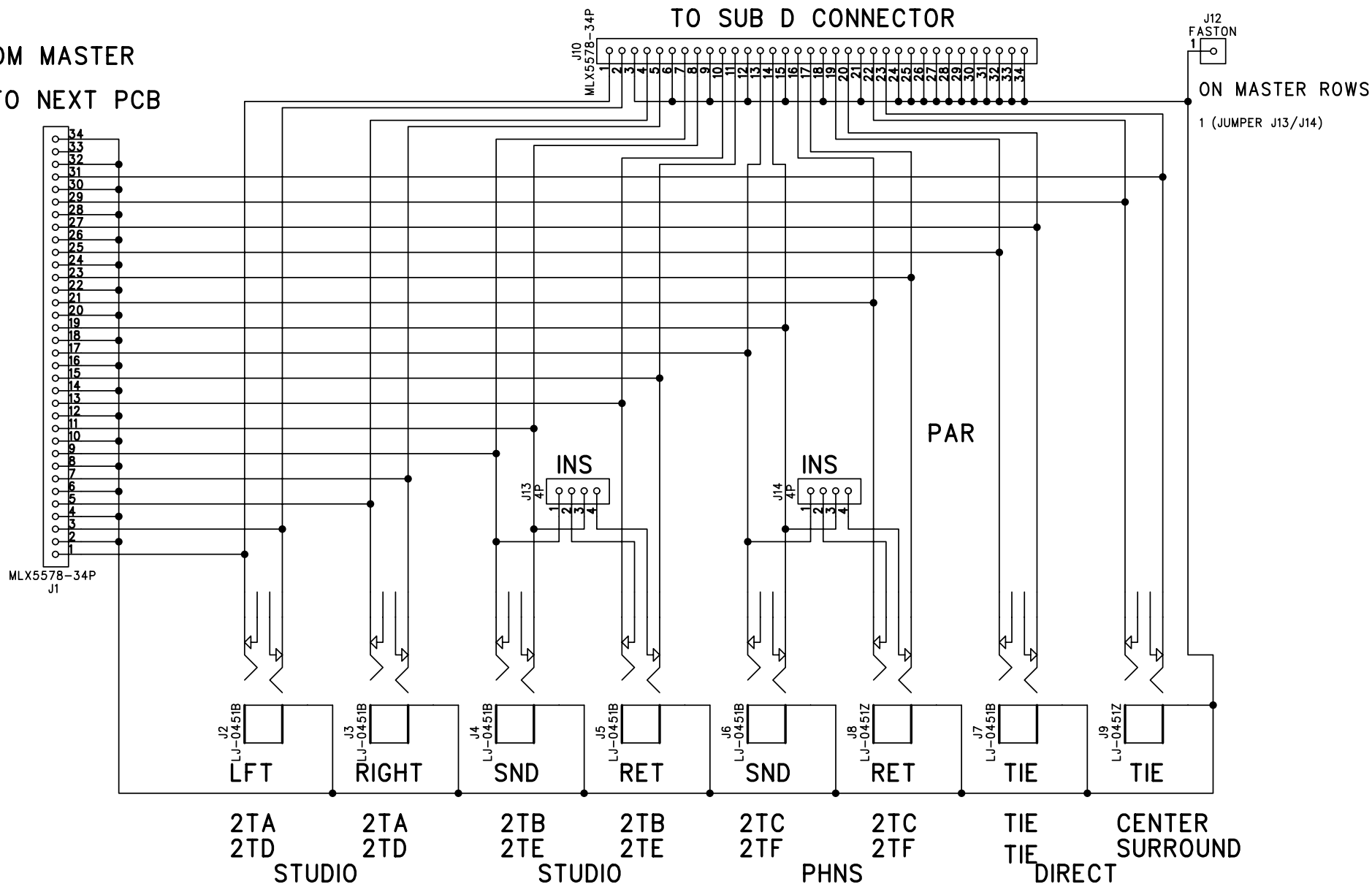
Sheet: **1** of **1**

Rev:

B



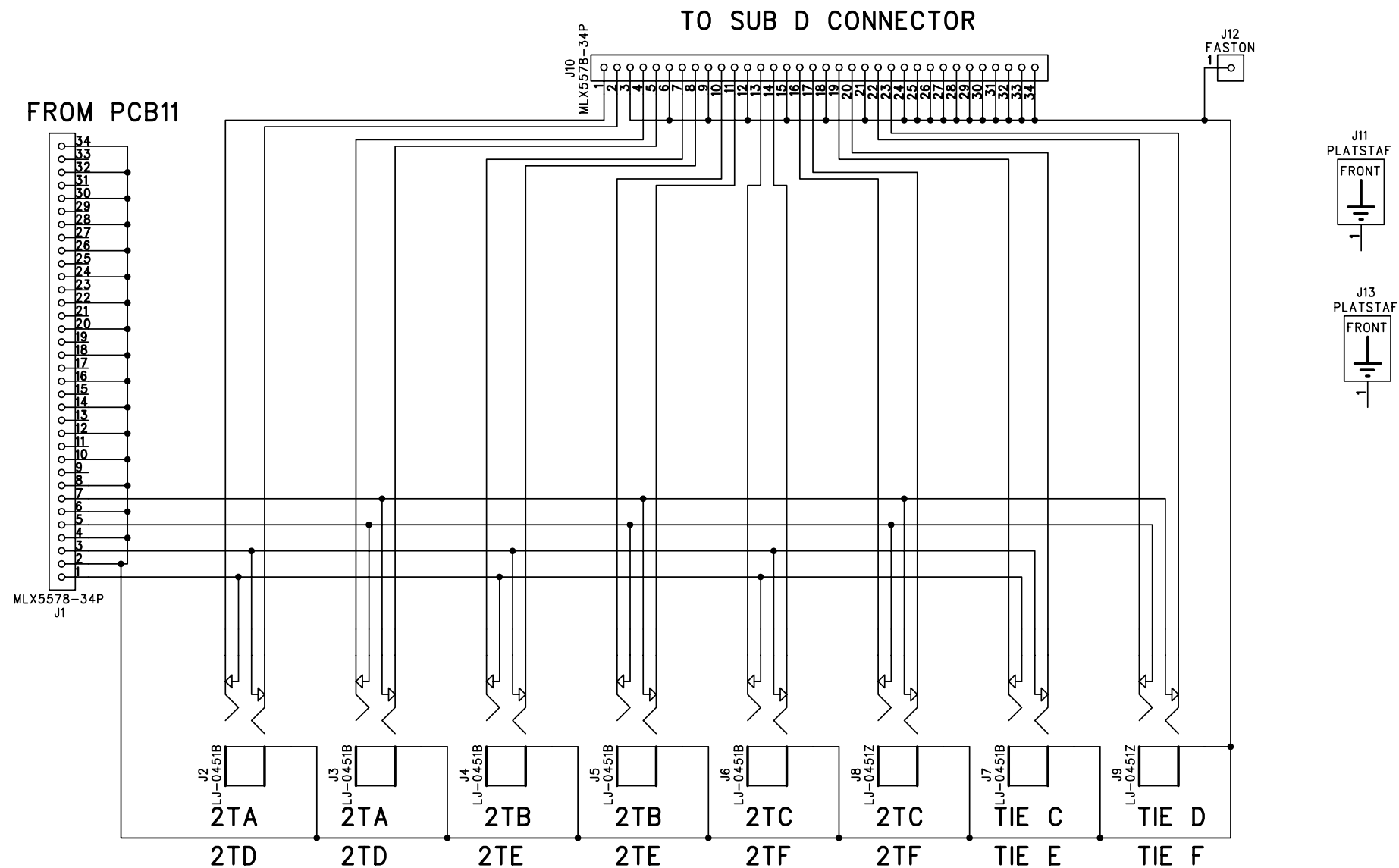
FROM MASTER
OR TO NEXT PCB



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 02940-18014
fax: 02940-16987

D&R Electronica B.V.

Title: Patch 11		Rev: P
Date: FEB 1994		
Sheet: 1 of 1		



D&R Electronica B.V.

Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 02940-18014
fax: 02940-16987

Title: Patch 12

Date: JAN 1994

Sheet: 1 of 1

Rev:

P

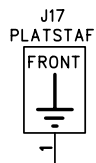
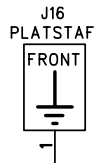
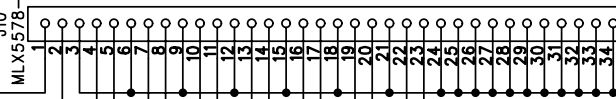
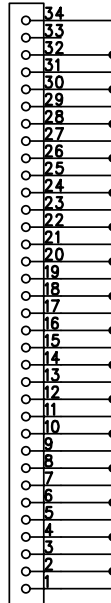
FROM
AUX
OUTPUTS

FROM MASTER

TO SUB D CONNECTOR

J12
FASTON
1

J10
MLX5578-34P



J2
LJ-0451B
1

J3
LJ-0451B
2

J4
LJ-0451B
3

J5
LJ-0451B
4

J6
LJ-0451B
5

J8
LJ-0451Z
6

J7
LJ-0451B
7

J9
LJ-0451Z
8

SIGNAL PROCESSOR INPUTS

JUMPER ON PCB 14
ON MASTER



D&R Electronica B.V.

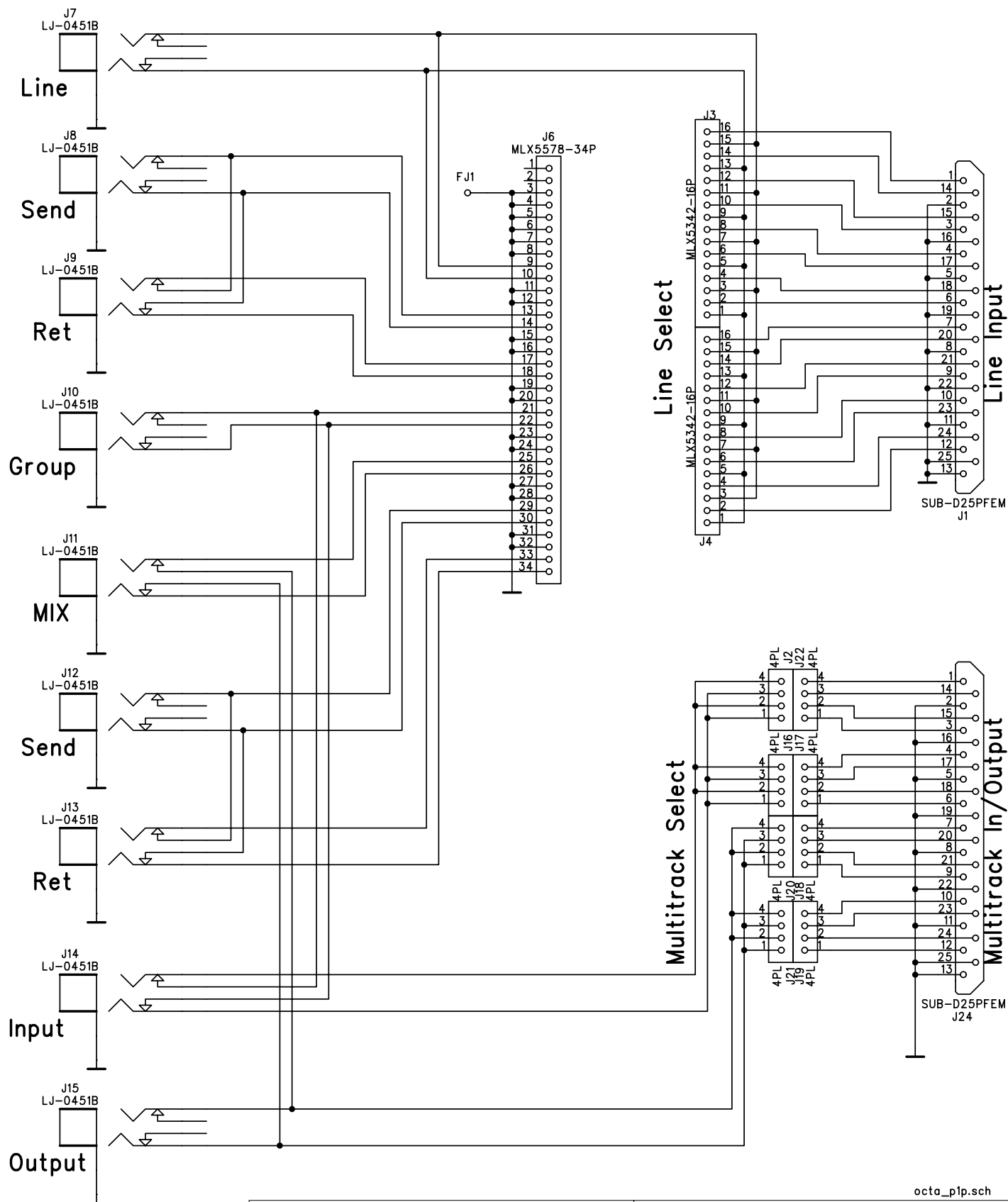
Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 02940-18014
fax: 02940-16987

Title: Patch 13

Date: JAN 1994

Sheet: 1 of 1

Rev:
P



octa_p1p.sch



D&R Electronics B.V.

Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

Title: **MerlinPP/Octagon-P1**

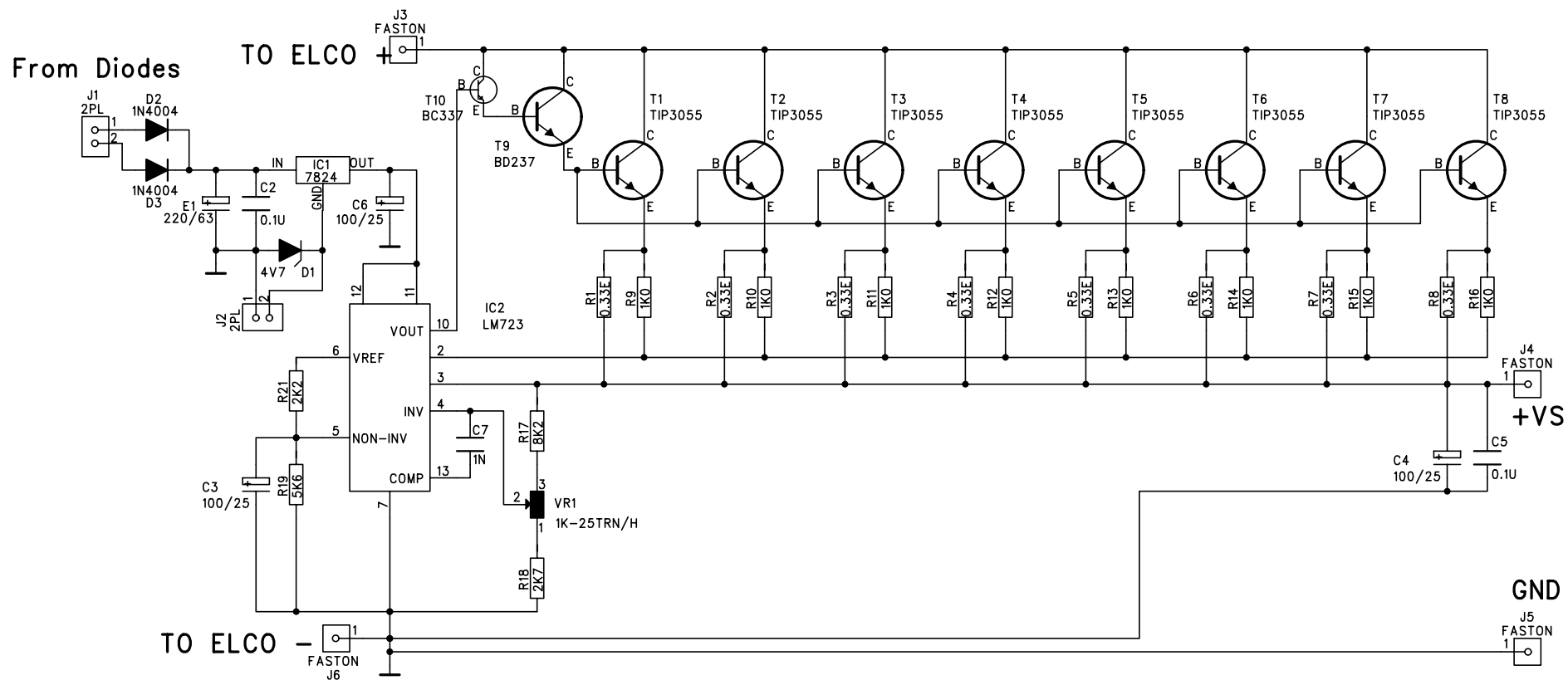
Date: **7/1997**

Sheet: **1** of **1**

Design: **RenD**

Rev:

P



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: R&D

Project: **Power Supply**

Title: **PSL Pos.**

File: **psl.sch**

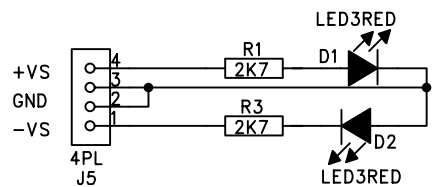
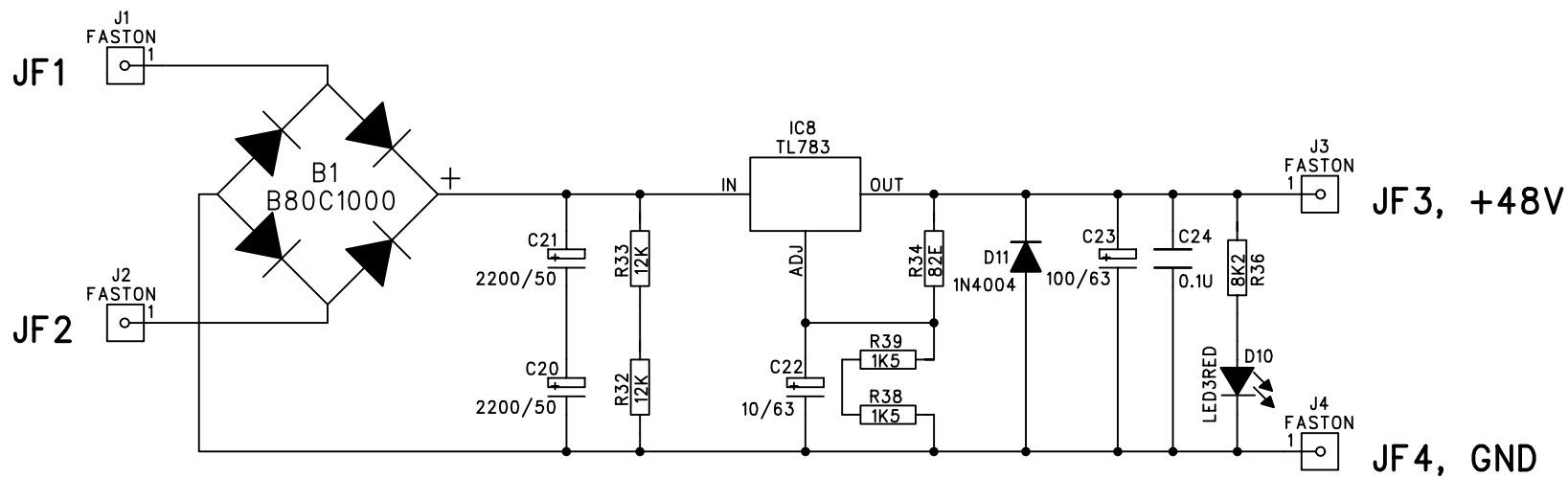
Date: **20-09-1996**

Sheet: **1 of 1**

Rev:

P





Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: _____

Project: **Power Supply**

Title: **PS Phantom**

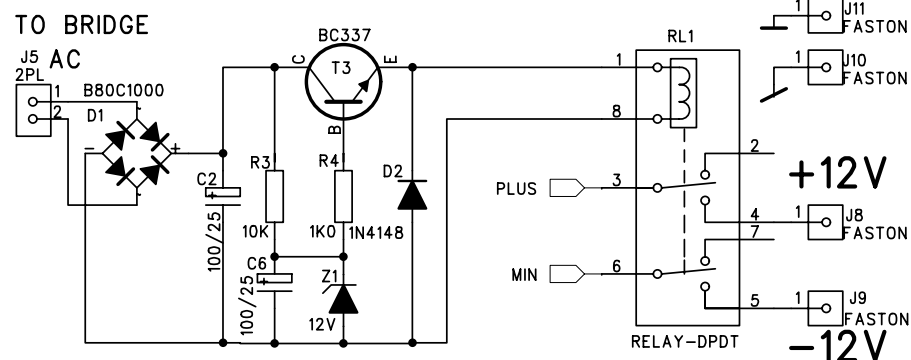
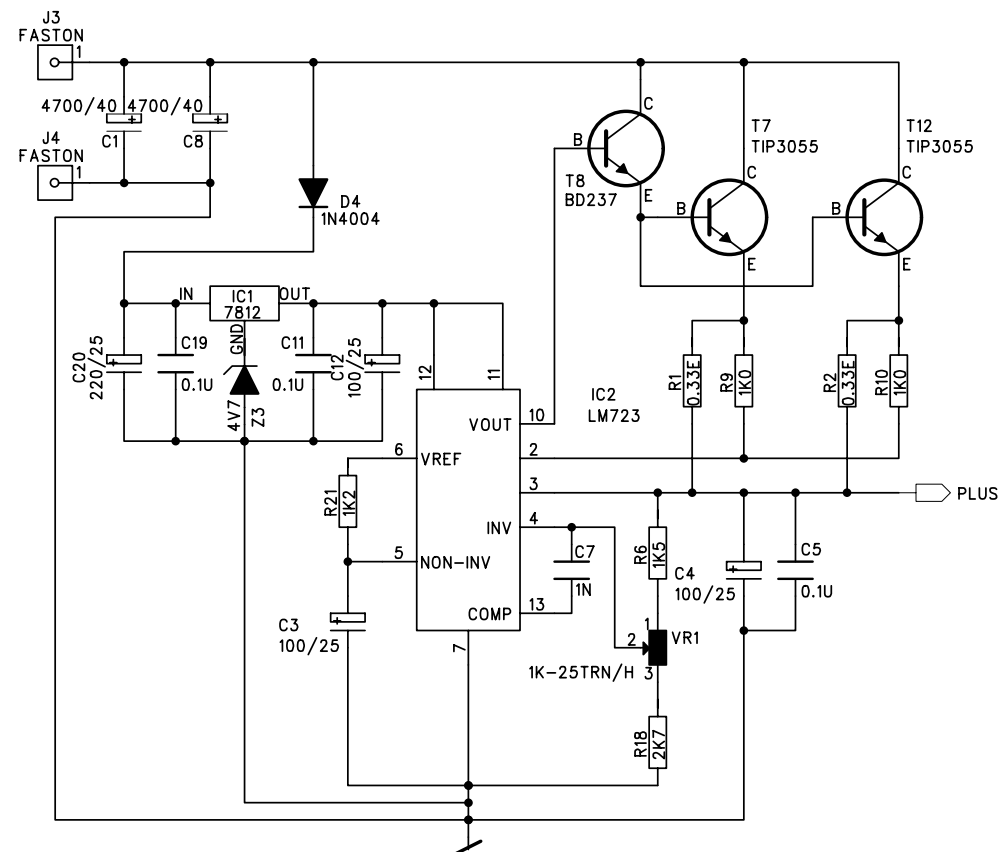
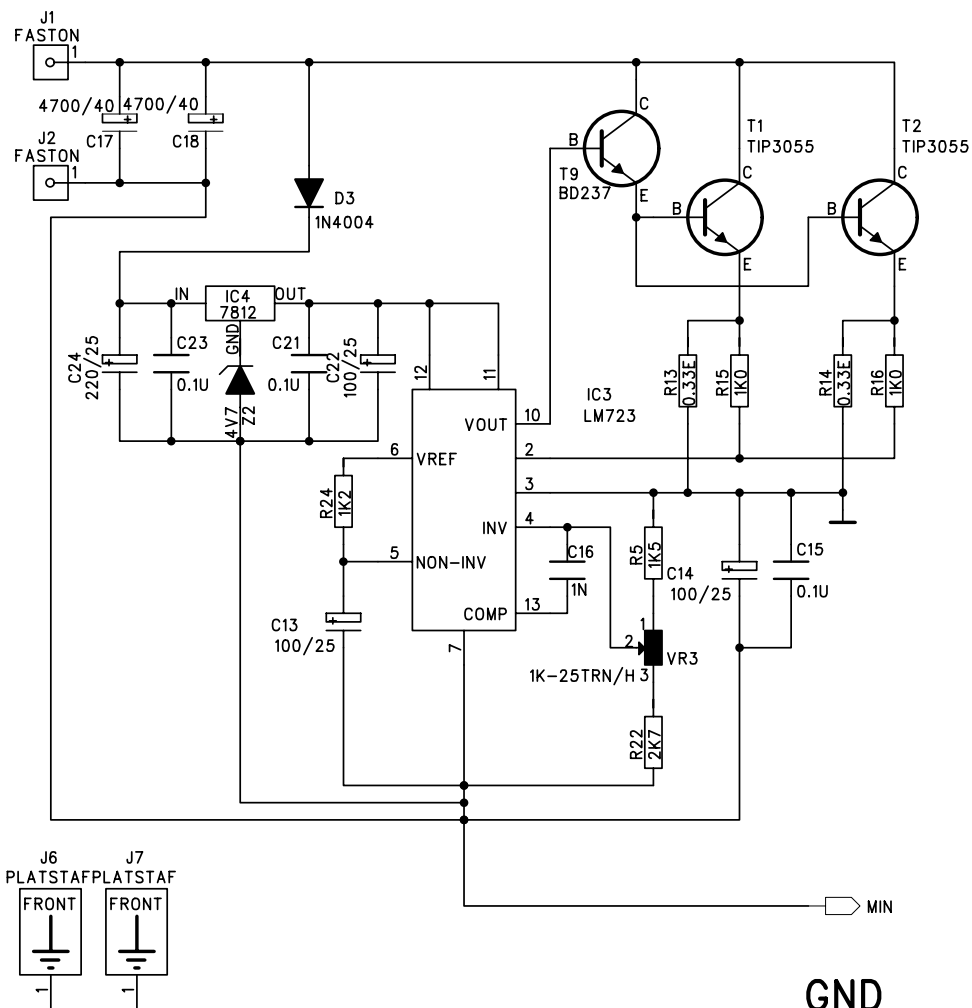
File: **ps48.sch**

Date: **20-09-1996**

Sheet: **1 of 1**

Rev:

P

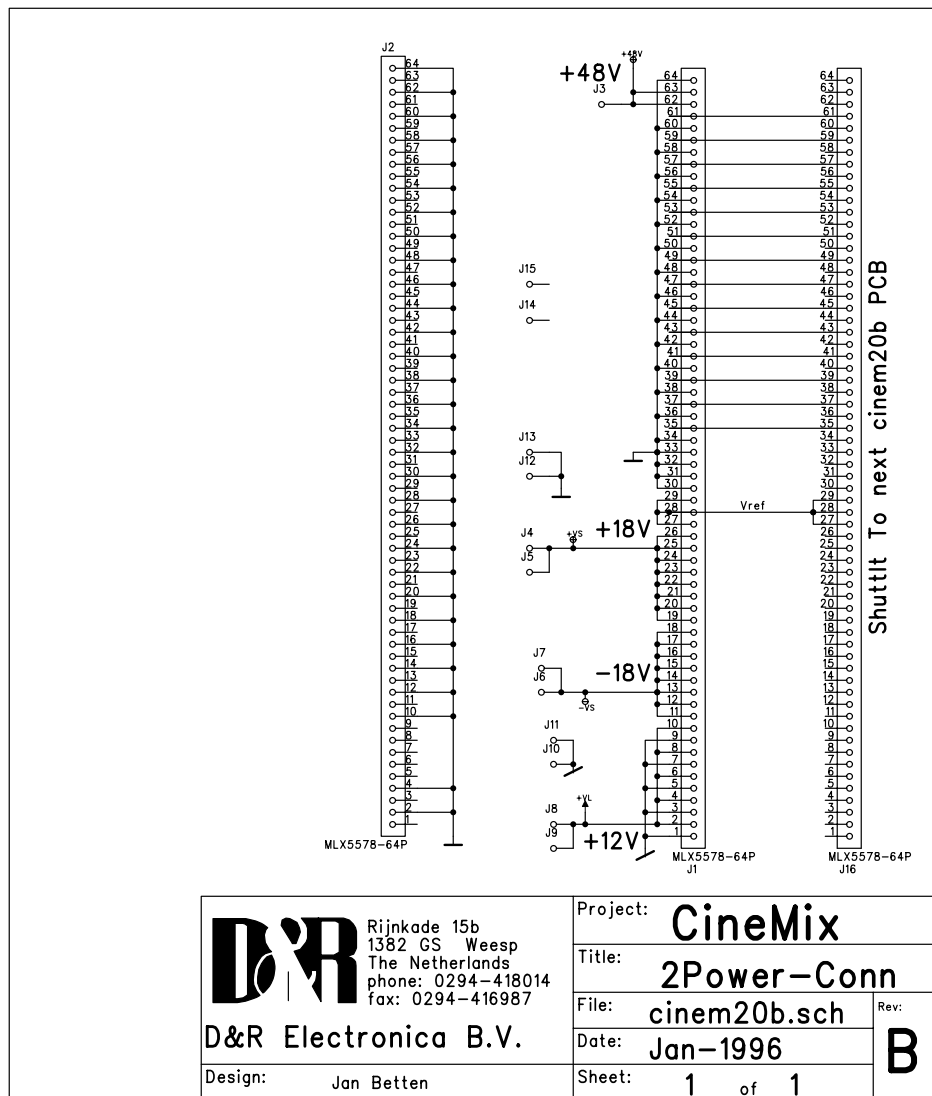


D&R Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: P.Wilcke@RenD.nl

Project: Voeding	
Title: +12V/-12V	
File: ps_dig2a.sch	Rev: A
Date: 22-10-1996	
Sheet: 1 of 1	



DNR

Cinemix

SERVICE MANUAL

MATRIX

Circuit diagram list Matrix module Cinemix

Decription	PCB name	Number of Sheets
Block diagram Matrix function		1
Block diagram Matrix signalflow		1
Matrix keyboard	Matrix 1P	1
Matrix LED buffer	Matrix 2P	1
Matrix Master keyboard	Matrix 3P	1
Matrix CPU	Matrix 4P	1
Matrix audio in	Matrix 5A	2
Matrix routing	Matrix 6P	2
Matrix buss	Matrix 7P	1

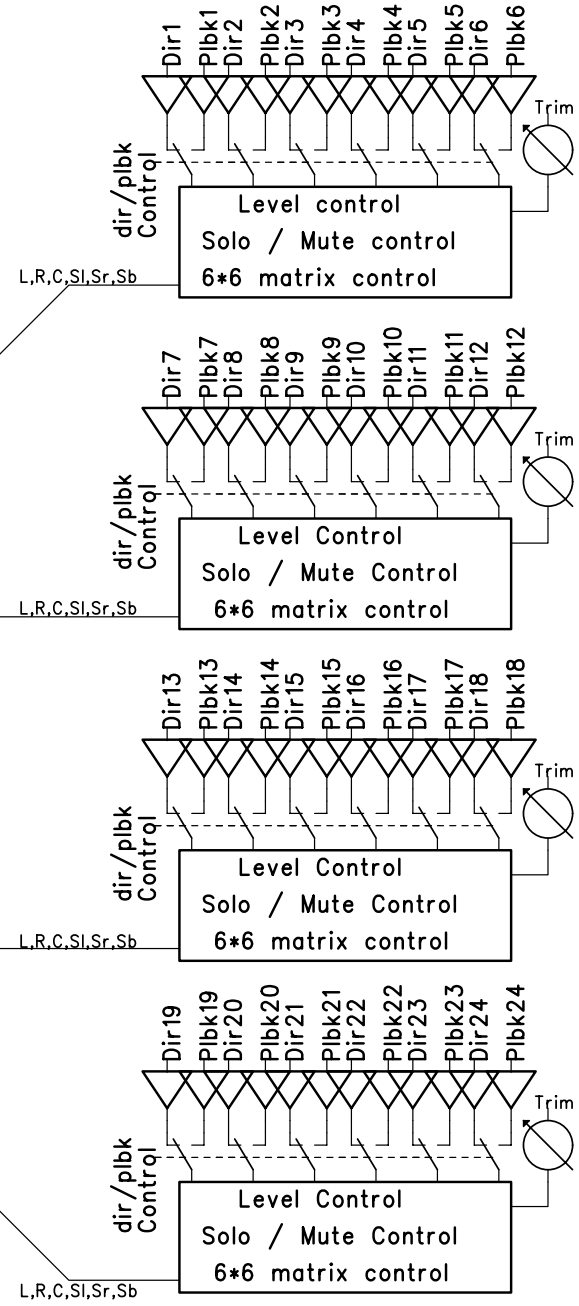
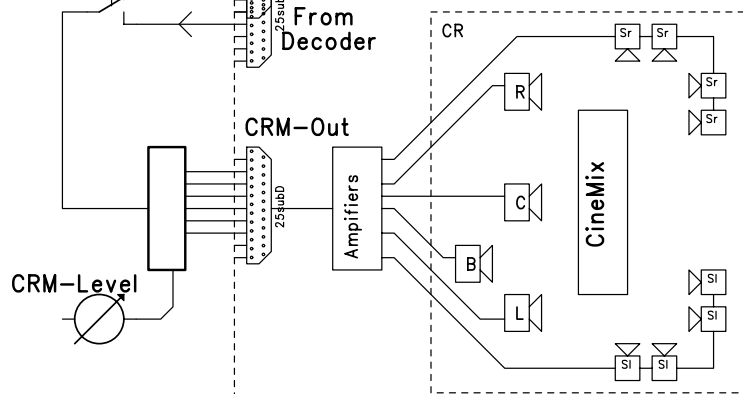
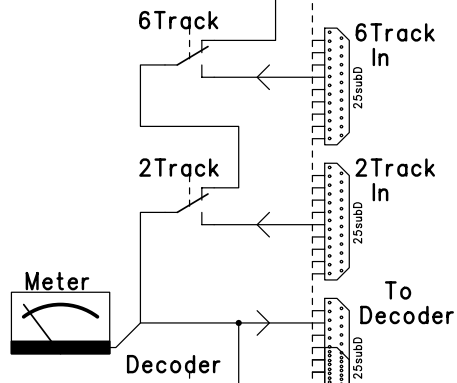
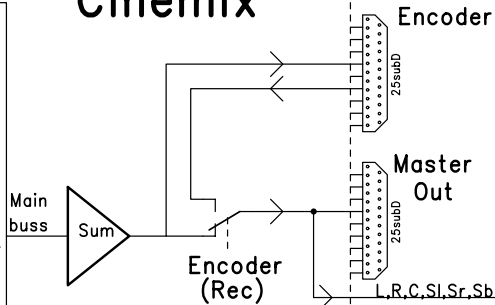
Cinemix

"Stems Module" Monitor Matrix

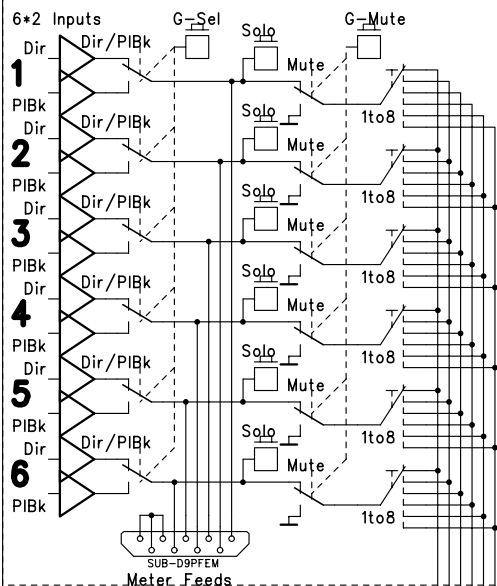
Matric-Control

CPU + Memory
Disp/Key control
Cinemix interface

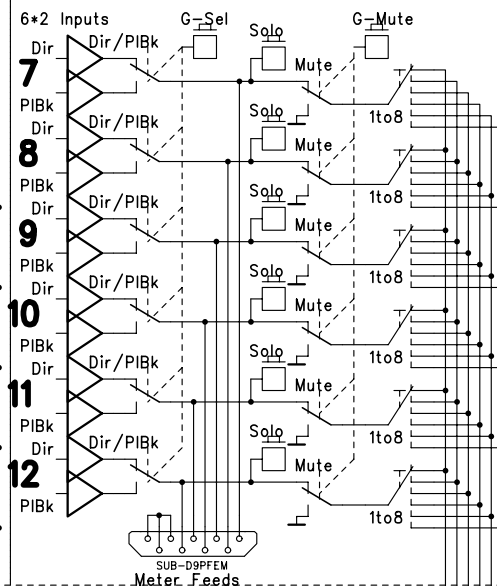
Cinemix master buss (Left,Center,Right,SurL,SurR,SubB)



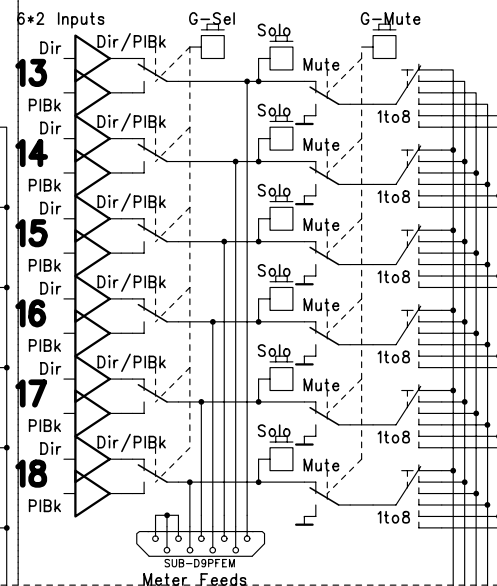
Ambiance



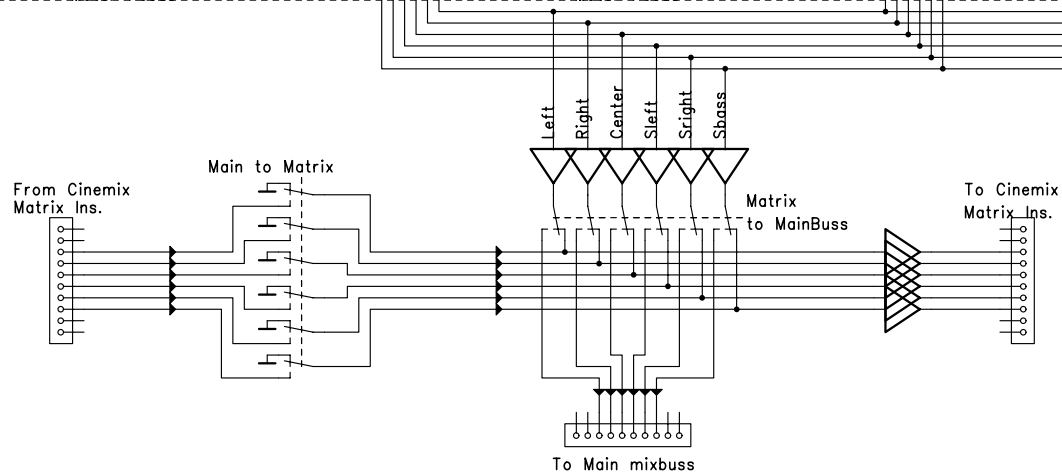
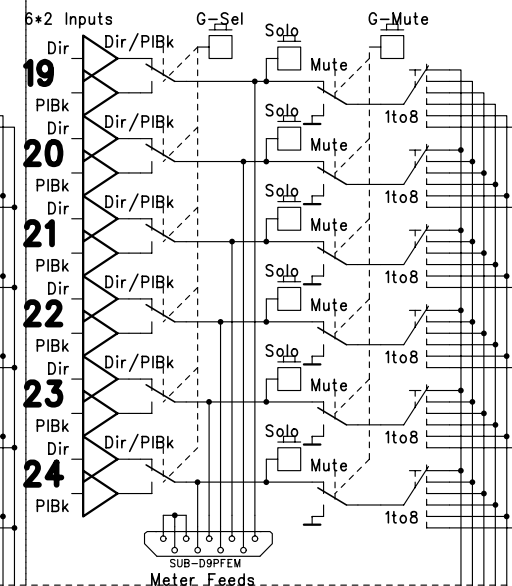
Effects



Music



Dialogue



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project: **Cinemix**

Title: **Matrix**

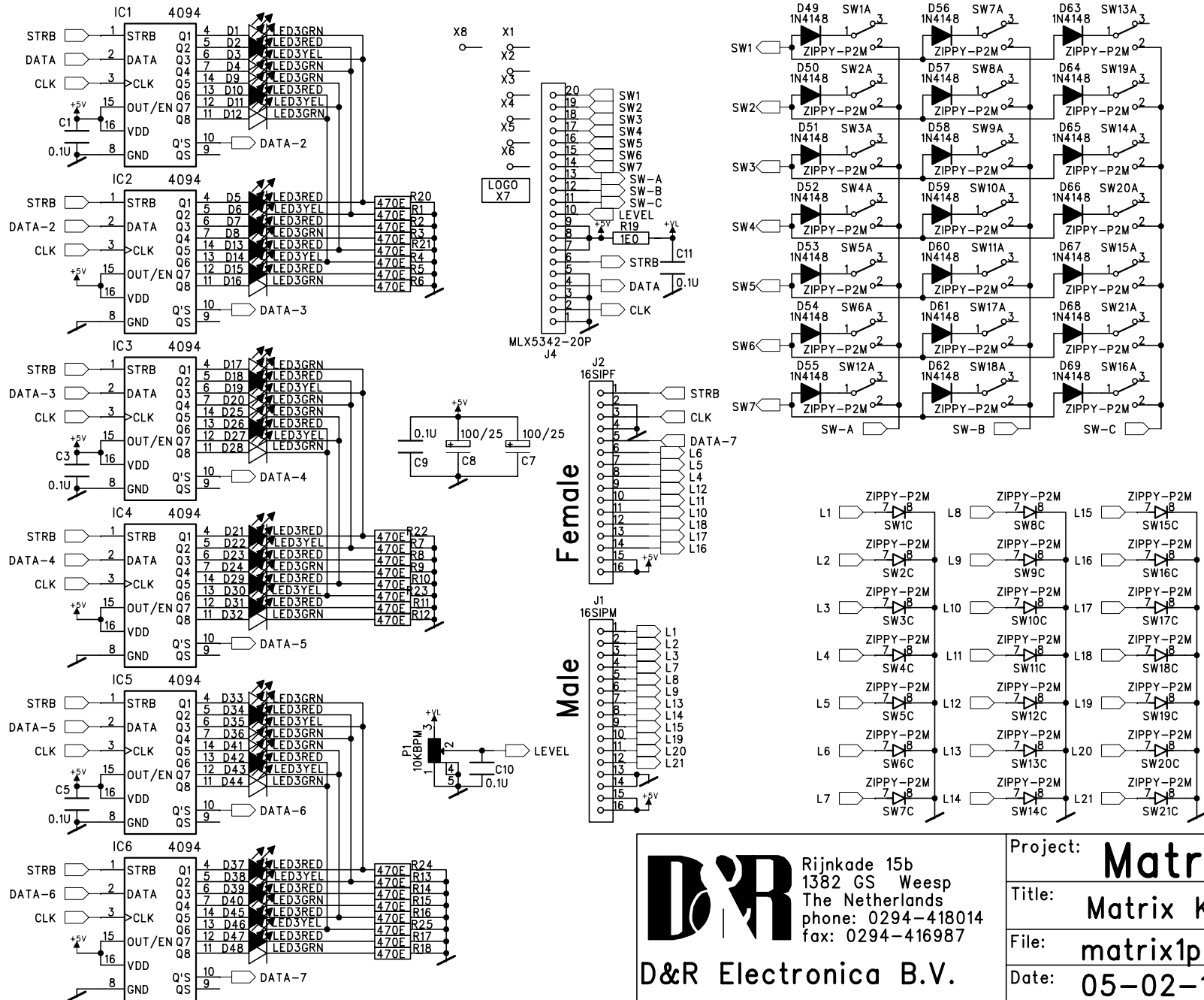
File: **matrixbl.sch**

Date: **1/1997**

Sheet: **1** of **1**

Rev:

P




Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

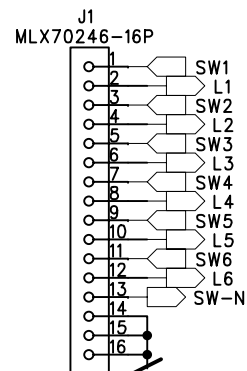
D&R Electronica B.V.

Design: Jan Betten

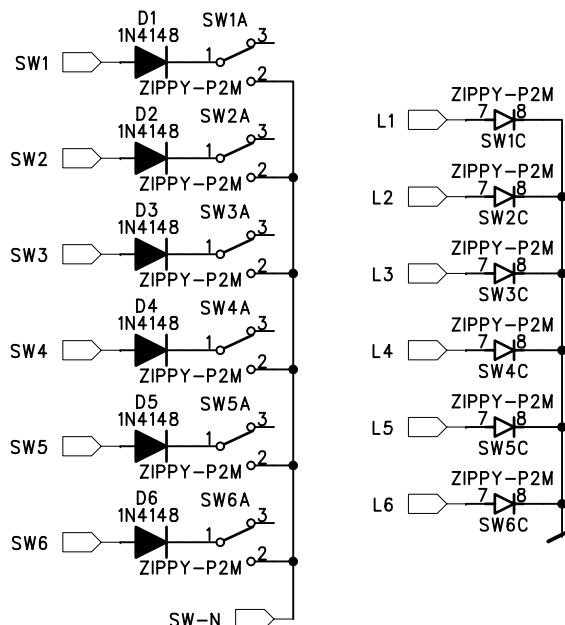
Project: Matrix	
Title: Matrix Keyboard	
File: matrix1p.sch	Rev: P
Date: 05-02-1997	
Sheet: 1 of 1	



 Rijnkade 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987 D&R Electronica B.V.	Project: Matrix	
	Title: Matrix LED buff	
	File: matrix2p.sch	Rev:
	Date: 05-02-1997	P
Design: Jan Betten	Sheet: 1 of 1	



X1 X2
○ — ○



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project:

Matrix

Title:

Matrix Master KeyB

File:

matrix3p.sch

Date:

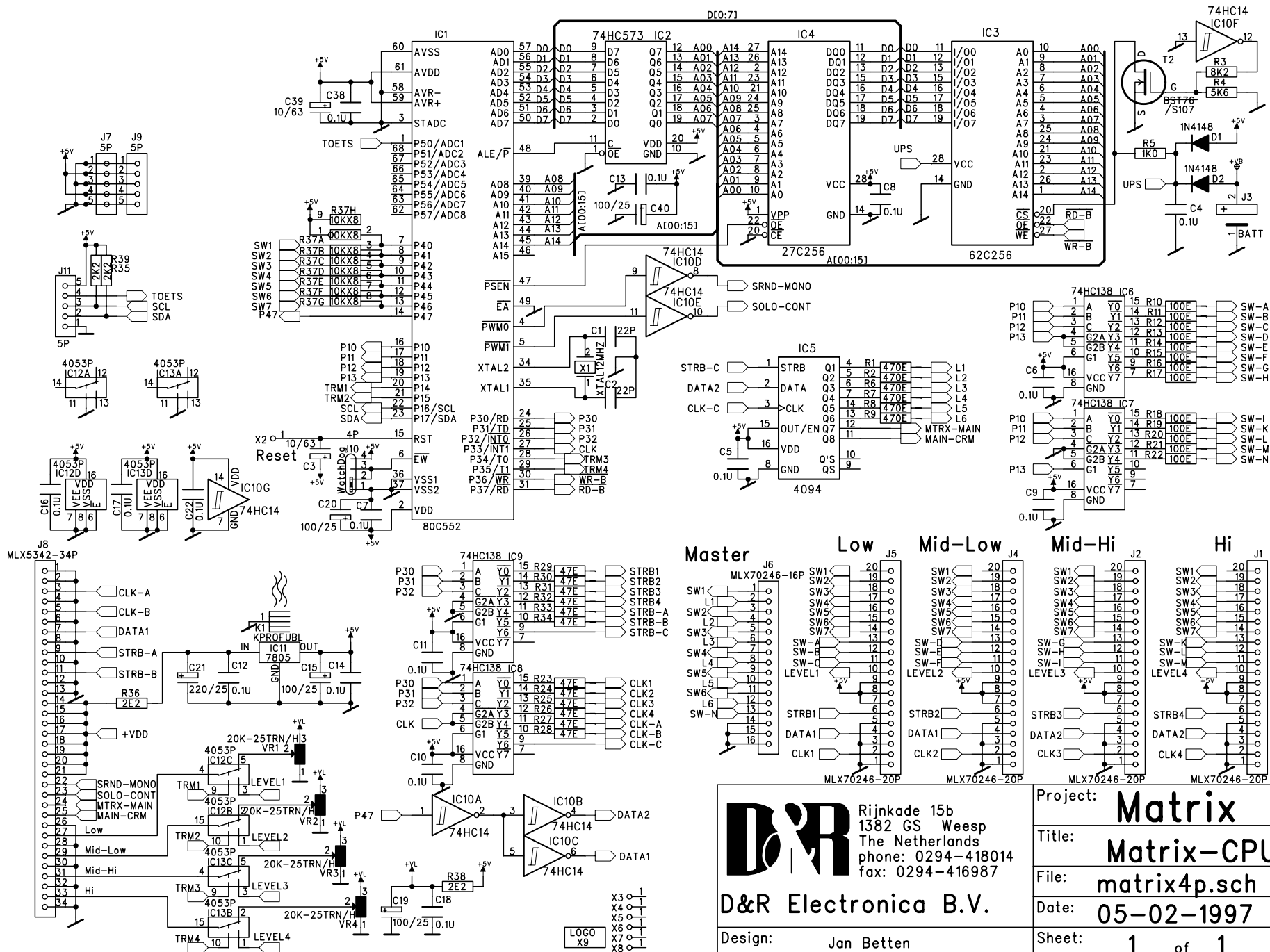
05-02-1997

Sheet:

1 of 1

Rev:

P

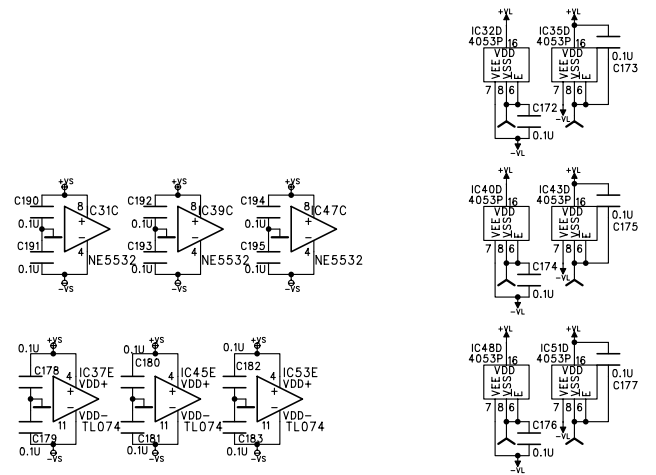
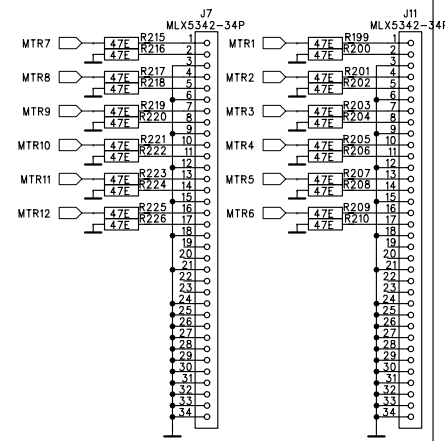
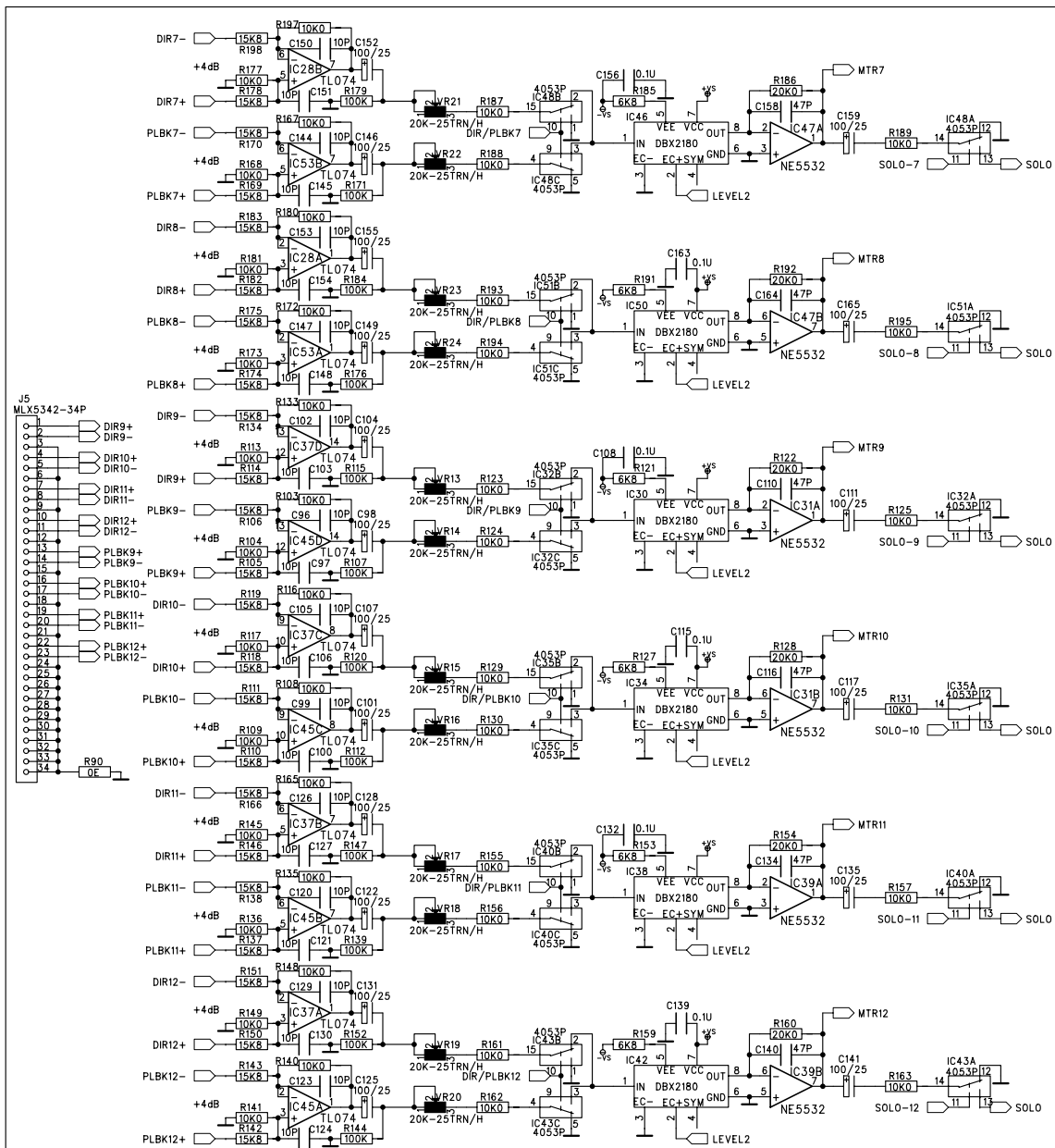



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

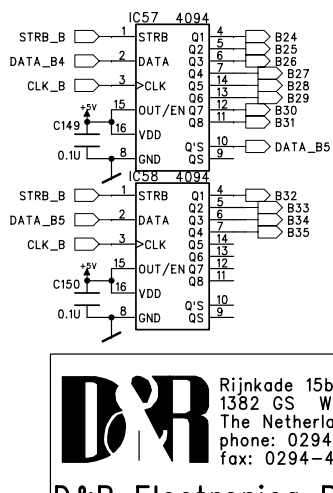
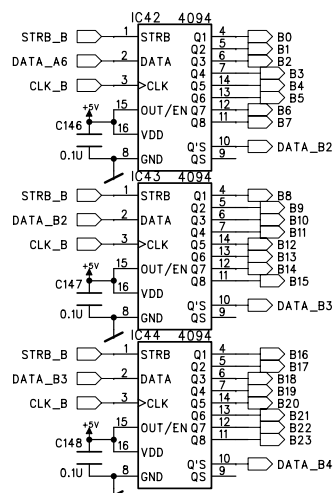
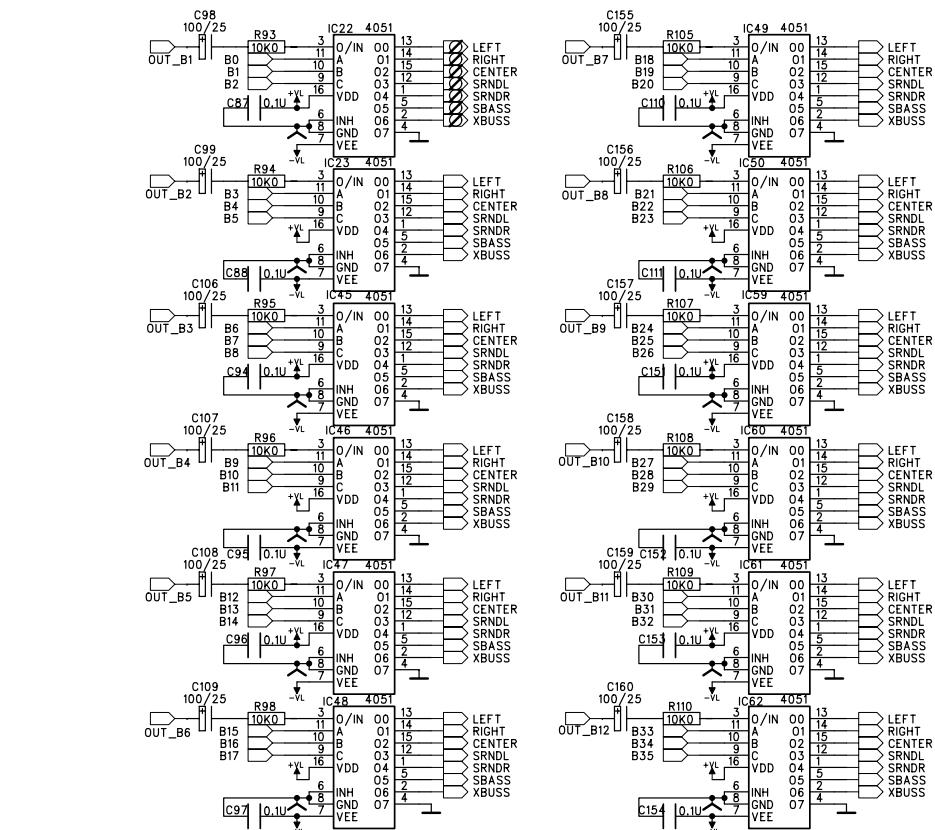
D&R Electronica B.V.

Design: Jan Betten

Project:	Matrix	
Title:	Matrix-CPU	
File:	matrix4p.sch	Rev: P
Date:	05-02-1997	
Sheet:	1 of 1	



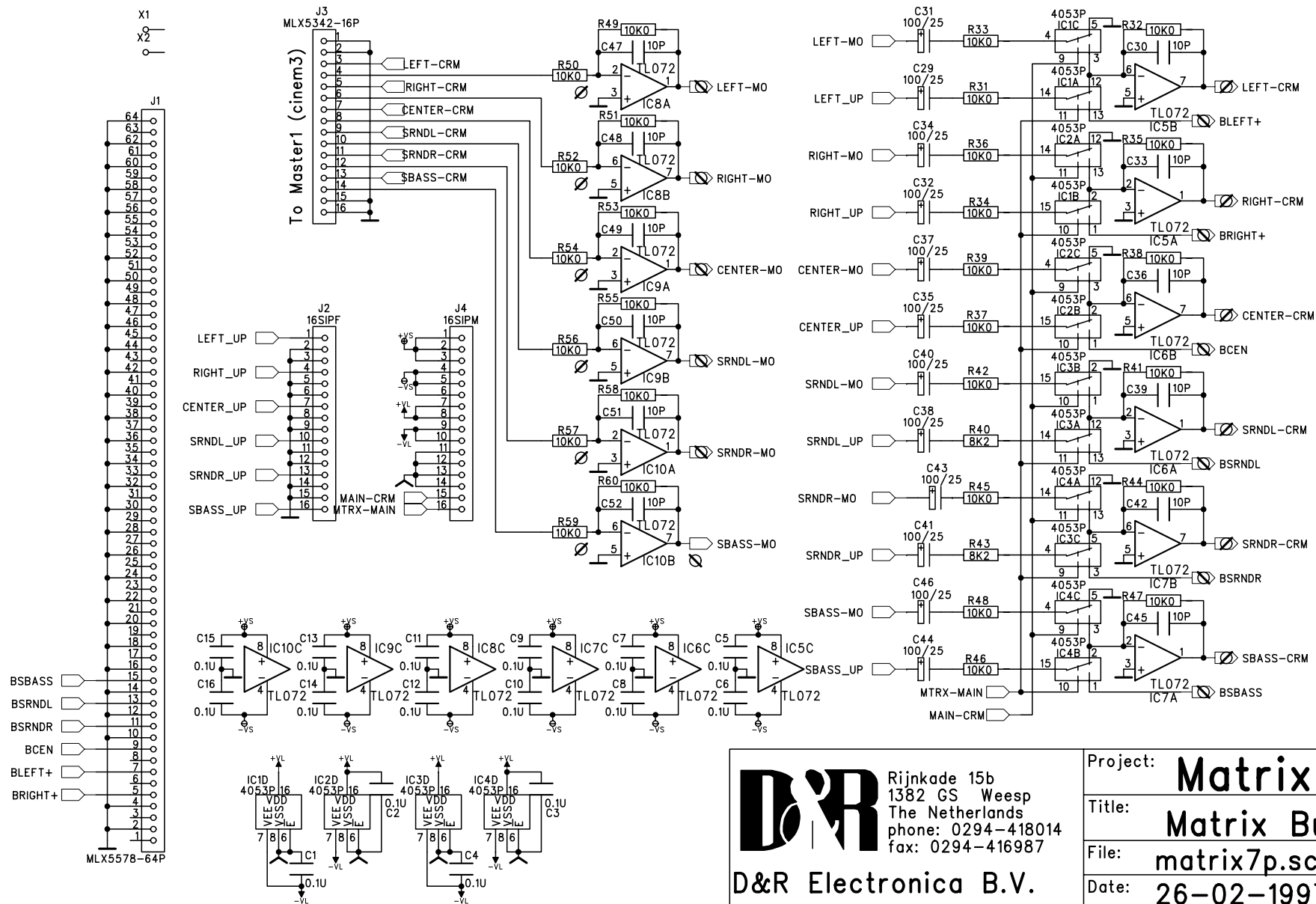
 D&R Electronics B.V. Design: Jan Betten	Rijnkade 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987	Project: Matrix Title: Matrix Audio In File: matrix5a.sch Date: 012-05-1997 Sheet: 2 of 2	Rev: A
---	--	---	---------------




Design:	J. Betten
---------	-----------

Re

F



 Rijnkade 15b 1382 GS Weesp The Netherlands phone: 0294-418014 fax: 0294-416987 D&R Electronica B.V.	Project: Matrix	
	Title: Matrix Buss	
	File: matrix7p.sch	Rev: P
	Date: 26-02-1997	
	Sheet: 1 of 1	
Design: Jan Betten		



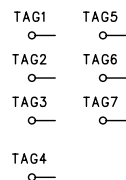
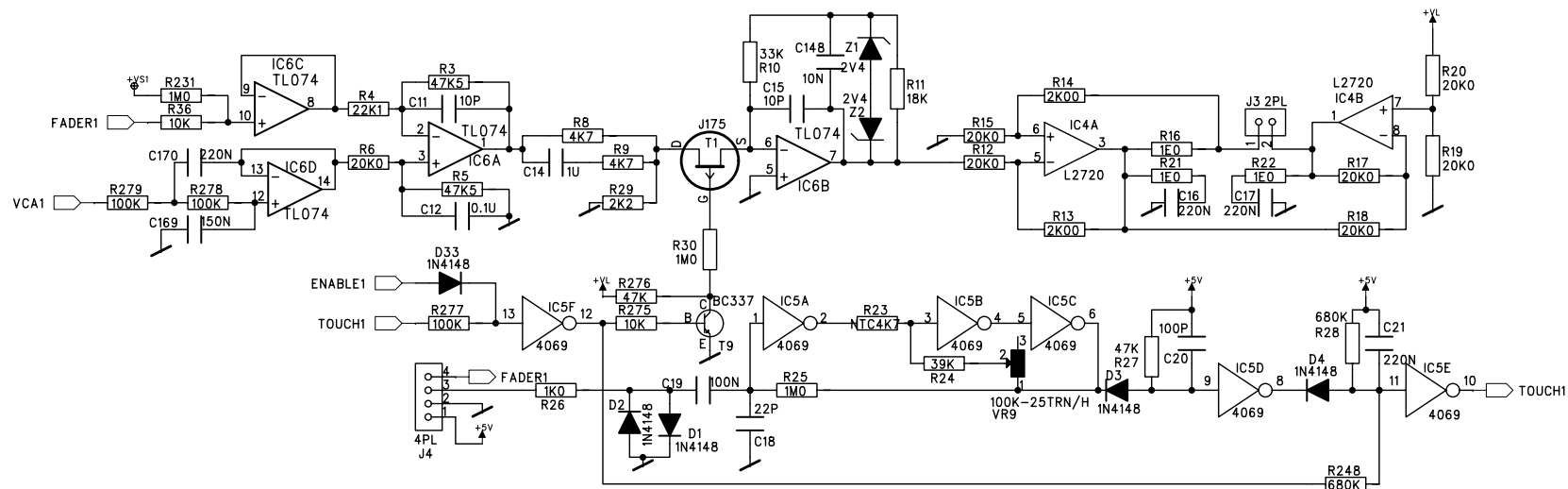
Cinemix

SERVICE MANUAL

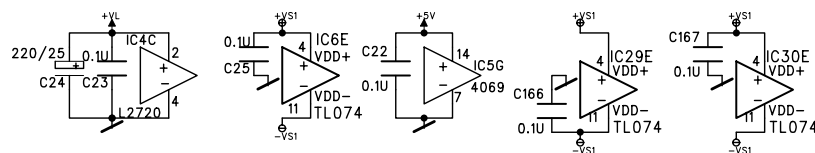
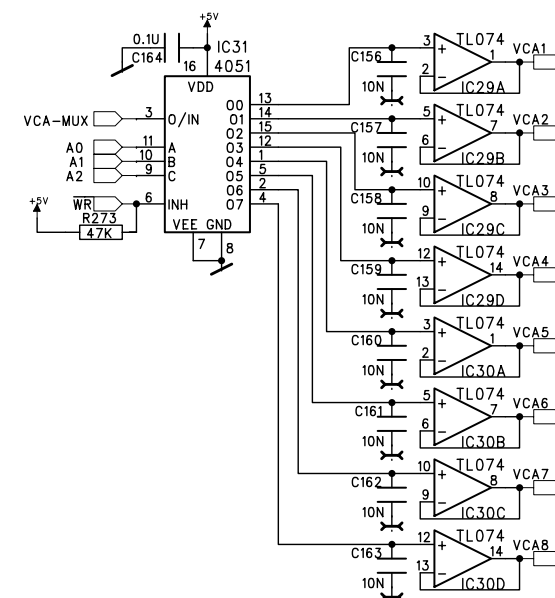
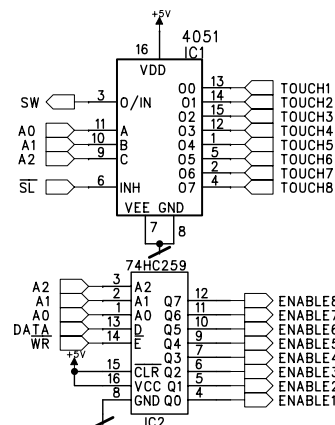
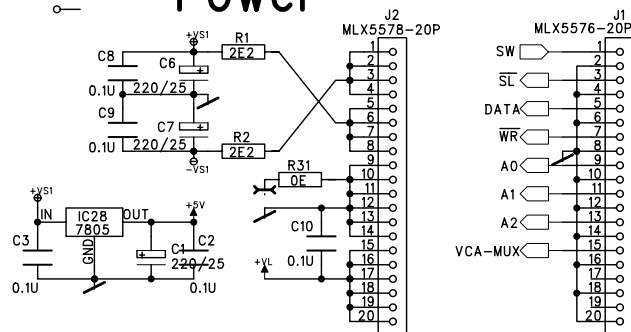
MOTORFADERS

Circuit diagram list Motor fader Cinemix

Discription	PCB name	Number of Sheets
Automation motor fader	MTRFDR1D	2
Motor Power distribution	Cineix 30P	1
Powersupply motorfader	PS_MOT C	1



Power

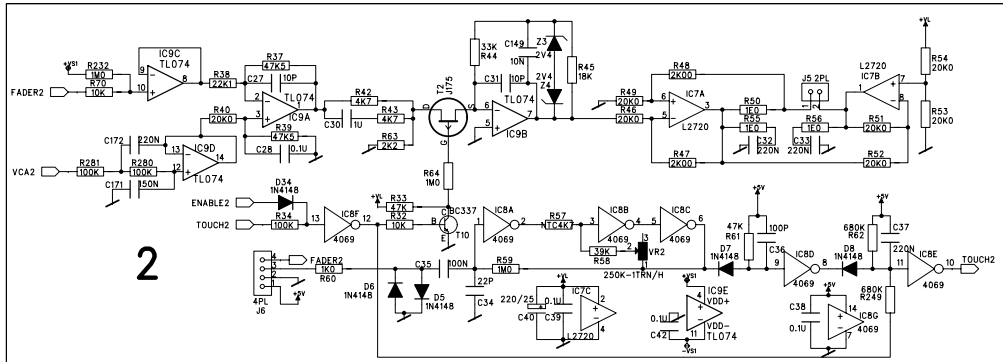


D&R Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

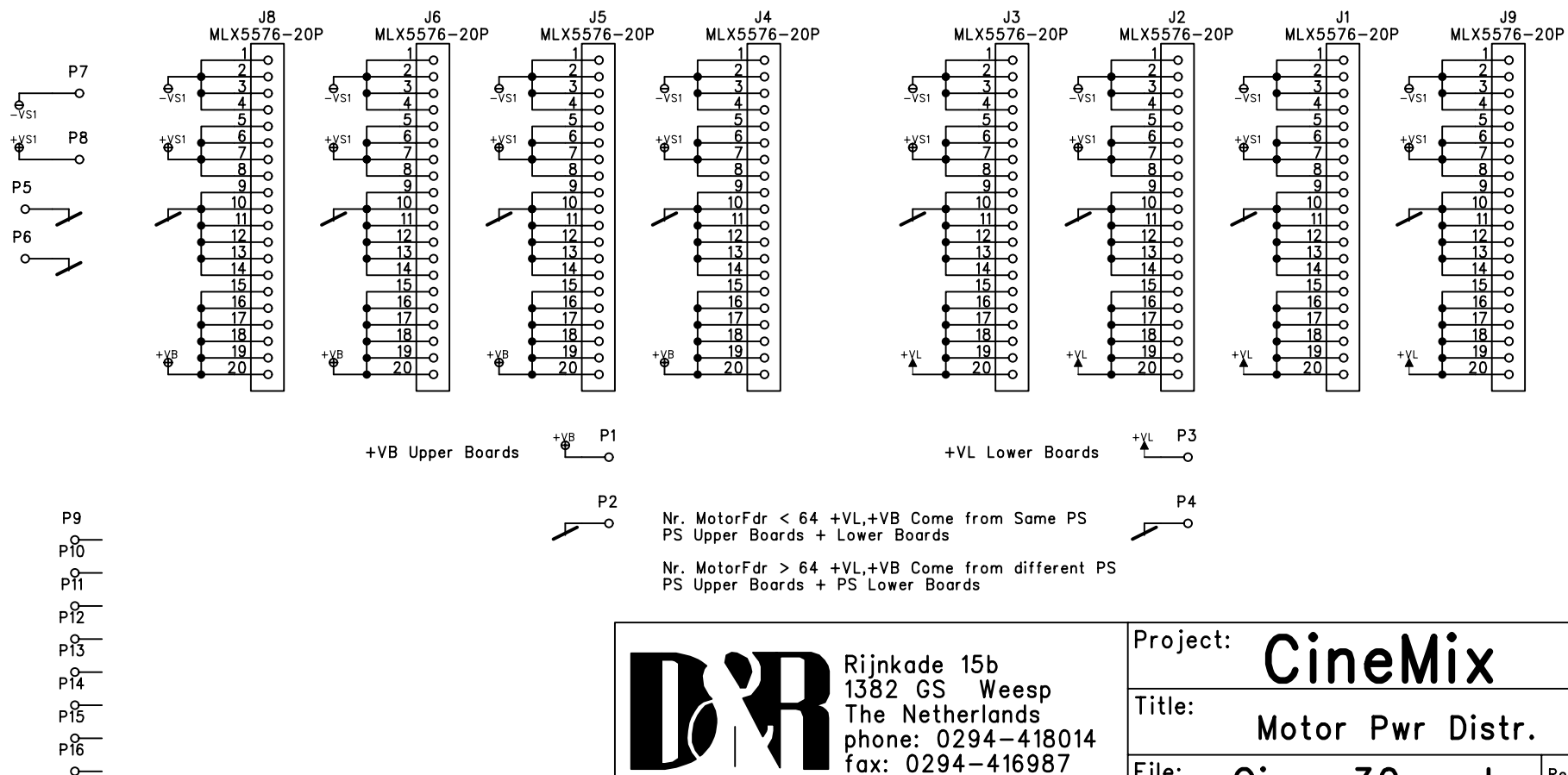
Design: Jan Betten

Project:	Automation	
Title:	MotorFader	
File:	mtrfdr1d.sch	Rev:
Date:	Dec-1996	D
Sheet:	1 of 2	



To Upper Motorboards

To Lower Motorboards

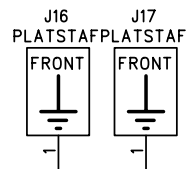
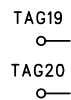


Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: _____

Project: CineMix	
Title: Motor Pwr Distr.	
File: Cinem30p.sch	Rev: A
Date: 23-08-1996	
Sheet: 1 of 1	



Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

Design:	E.v.d.Krans
---------	-------------

Sheet: 1 of 1

C



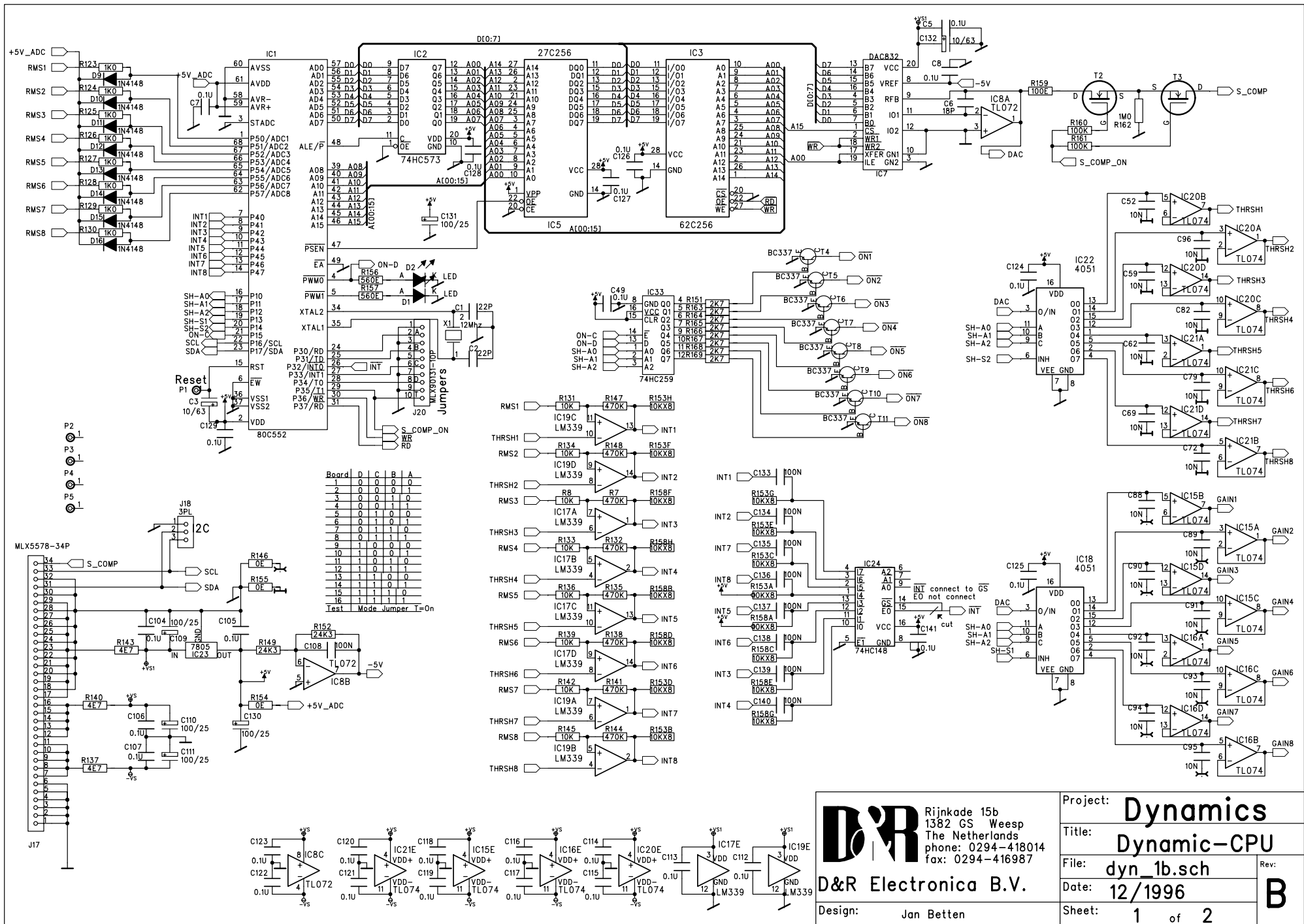
CinemiX

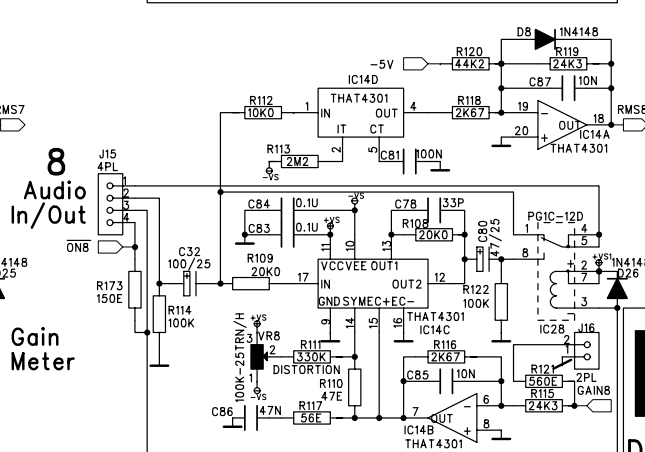
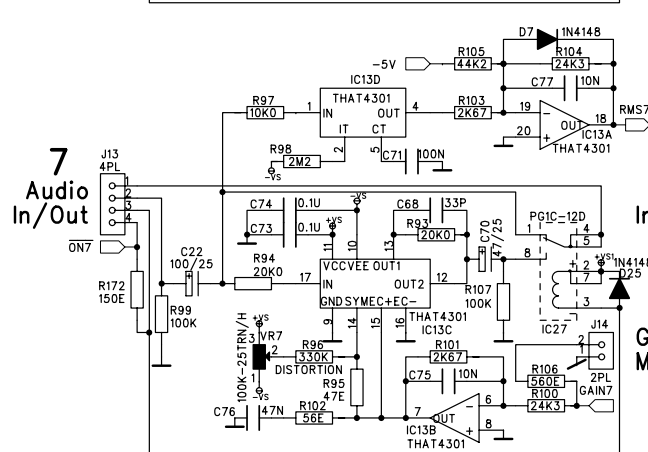
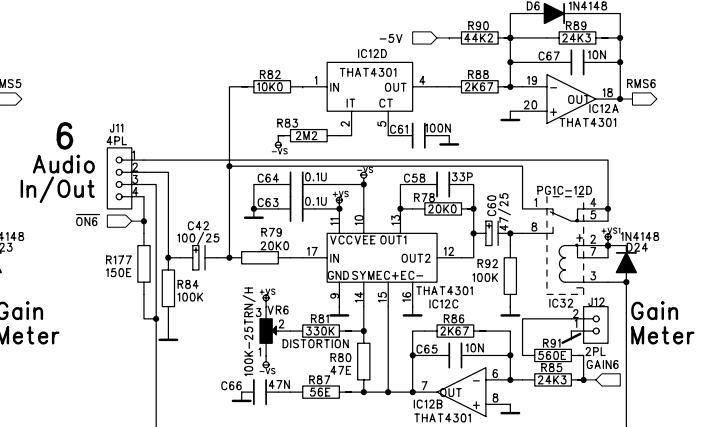
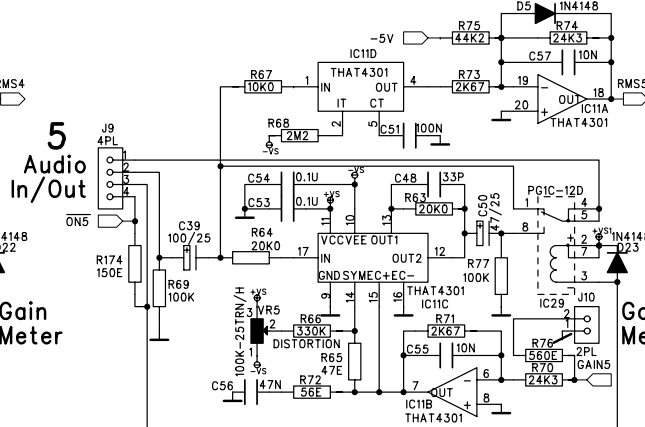
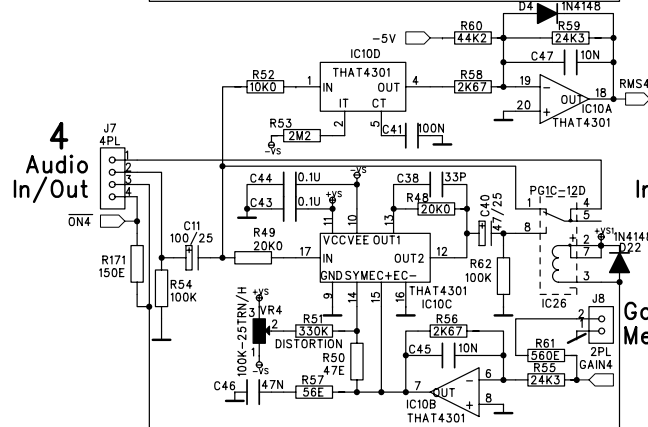
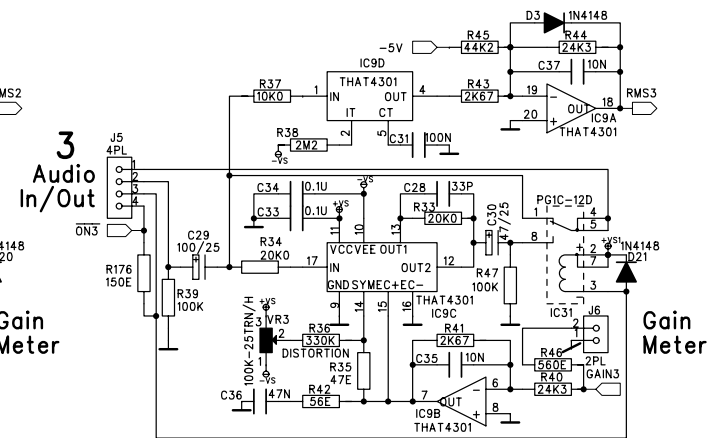
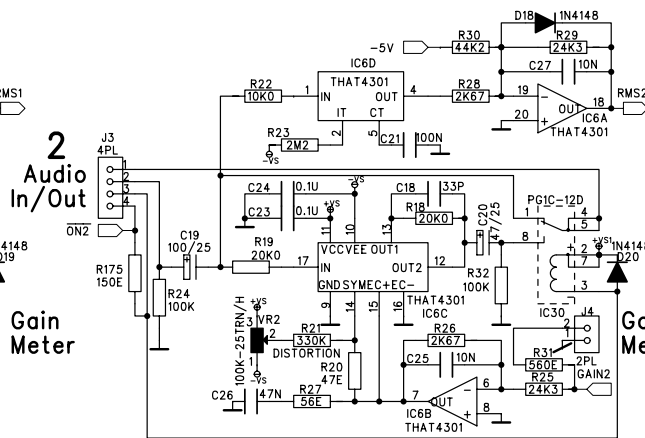
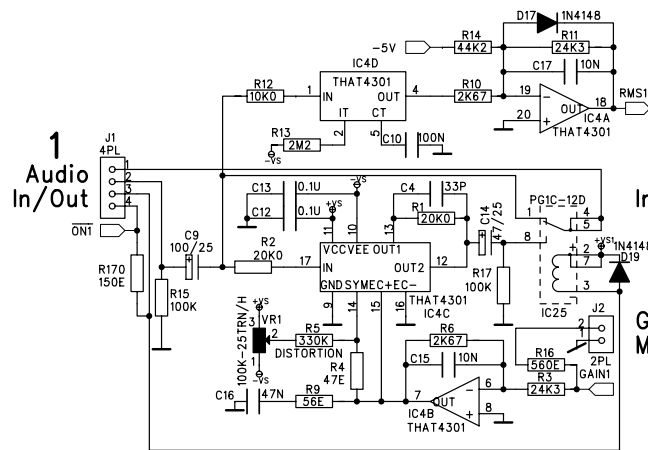
SERVICE MANUAL

DYNAMICS

Circuit diagram list Dynamics

Description	PCB name	Number of Sheets
Dynamics CPU	DYN_1B	2





Rijnkade 15b
1382 GS Weesp
The Netherlands
phone: 0294-418014
fax: 0294-416987

D&R Electronica B.V.

Design: Jan Betten

Project: **Dynamics**

Title: **Dynamic-VCA**

File: **dyn_1b.sch**

Date: **12/1996**

Sheet: **2 of 2**

Rev:

B

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883301 Cinemix SMPTE bandcable 2xsubD			
Articlecode	Description	Quantity	Unit
10650446	Bandkabel 10p (R 1.27)	400.0000	cm
10600095	Connector sub-D bandkb.mal 9p	1.0000	st
10600112	Connector sub-D bandkb.mal 25p	1.0000	st
60883302 Cinemix 32 MotorFad. kabelboom			
Articlecode	Description	Quantity	Unit
10600509	Header 20P Straight	16.0000	st
10201219	Print PS-DISa	1.0000	st
10500705	Isolatieplaat midi mute PVC	0.5000	st
10600013	Kabelschoen stifthouder blauw	20.0000	st
10700610	Moer M 3	5.0000	st
10650105	Montagedraad 2.5 mm2 geel/grn	1500.0000	cm
20851219	Print bestukt PS-DISa	1.0000	st
10700787	Taptite M3x6 bolkopozidr/zwrt	5.0000	st
10700680	Tywrap lang 150mm blank	25.0000	st
10700675	Tywrap plakzadel ---- 28x28 mm	25.0000	st
10700622	Zeskant tap M3x 6mm metaal	5.0000	st
60883303 Cinemix 48 MotorFad. kabelboom			
Articlecode	Description	Quantity	Unit
10600509	Header 20P Straight	16.0000	st
10201219	Print PS-DISa	1.0000	st
10500705	Isolatieplaat midi mute PVC	0.5000	st
10600013	Kabelschoen stifthouder blauw	28.0000	st
10700610	Moer M 3	5.0000	st
10650105	Montagedraad 2.5 mm2 geel/grn	2440.0000	cm
20851219	Print bestukt PS-DISa	1.0000	st
10700787	Taptite M3x6 bolkopozidr/zwrt	5.0000	st
10700680	Tywrap lang 150mm blank	35.0000	st
10700675	Tywrap plakzadel ---- 28x28 mm	35.0000	st
10700622	Zeskant tap M3x 6mm metaal	5.0000	st
60883307 Cinemix film master			
Articlecode	Description	Quantity	Unit
10950470	Batterij 3V (lithium knoopcel)	1.0000	st
10950471	Batterij houder knoopcel	1.0000	st
10400213	Condensator ker 10p R2.5	108.0000	st
10400216	Condensator ker 18p R2.5	10.0000	st
10400217	Condensator ker 22p R2.5	13.0000	st
10400221	Condensator ker 47p R2.5	6.0000	st
10400223	Condensator ker 68p R2.5	28.0000	st
10401241	Condensator ker 100nF/50V R5 T	259.0000	st
10401246	Condensator poly 1n0 R5.0	4.0000	st
10401268	Condensator poly 1uF R5.0	2.0000	st
10401250	Condensator poly 4n7 R5.0	2.0000	st
10401253	Condensator poly 10n R5.0	11.0000	st
10401258	Condensator poly 47n R5.0	1.0000	st
10401242	Condensator poly 82n R5.0	12.0000	st
10401261	Condensator poly 100n R5.0	3.0000	st
10400269	Condensator poly 220n R5.0	1.0000	st
10400270	Condensator poly 470n R5.0	3.0000	st
10600516	Connector 16p (single row 16p)	12.0000	st
10250342	Diode 1N4148(signal)	90.0000	st
10400279	Elco 1uF / 63V radiaal R5.0	5.0000	st
10400284	Elco 10uF / 40V radiaal R5.0	2.0000	st
10400286	Elco 22uF / 50V radiaal R5.0	3.0000	st
10400287	Elco 47uF / 25V radiaal R5.0	1.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	160.0000	st
10400280	Elco 2.2uF / 50V radiaal R5.0	1.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	37.0000	st
10550100	Encoder ECW 1 JB 24 BC 0024	1.0000	st
10250270	Fet BST76a /BS107 (Nch switch)	1.0000	st
10250338	Fet J112 (N-channel switch)	3.0000	st
10250017	Fet J175 (P-channel switch)	3.0000	st
10600452	Header 10p haaks (raster 2.54)	2.0000	st
10600540	Header 10p recht (raster 2.54)	1.0000	st
10600517	Header 16p (single row 16p)	12.0000	st
10600509	Header 20P Straight	3.0000	st
10600510	Header 2p Lock straightR 2.54)	2.0000	st
10600511	Header 3p Lock straightR 2.54)	3.0000	st
10600512	Header 4P lock straight(R2.54)	17.0000	st
10600456	Header haaks 20p (raster 2.54)	4.0000	st
10600140	Header haaks 34p (raster 2.54)	6.0000	st
10600141	Header haaks 64p (raster 2.54)	8.0000	st
10600478	Header recht 4p (raster 2.54)	9.0000	st
10600435	Header recht 10p nobox(R 2.54)	4.0000	st
10600520	Header recht 16p box (R 2.54)	2.0000	st
10600142	Header recht 34p (raster 2.54)	8.0000	st
10250026	Ic 27C512-10 EPROM 64K 100ns	1.0000	st
10250040	Ic 40106B (hex schmitt trig)	4.0000	st
10250025	Ic 4051B (8 chann multiplexer)	3.0000	st
10250057	Ic 4052 (dual analog mux)	6.0000	st
10250004	Ic 4053B (HCF4053 BEY)switch	5.0000	st
10250005	Ic 4093B (snand)	1.0000	st
10250094	Ic 4094 (8bit serial shiftreg)	16.0000	st
10250039	Ic 62C256 (8 bit 32k ram)	1.0000	st
10250012	Ic 74HC125 (quad bistab. buf)	1.0000	st
10250034	Ic 74HC132 (quad 2inp.schmitt)	1.0000	st
10250048	Ic 74HC138 3to8 line decoder	3.0000	st
10250033	Ic 74HC573 (octal-D latch)	2.0000	st
10250291	Ic 7805 TO220 SGS (volt.reg)	5.0000	st
10250036	Ic 80C552 (8-bit micro-comptr)	1.0000	st
10250275	Ic LM-1972N (M-DAC)	9.0000	st
10250316	Ic LM-339(comparator)	4.0000	st
10250307	Ic NE-5532 AP TI (dual-opamp)	31.0000	st
10250182	Ic SSM-2142 P (balanced out)	2.0000	st
10250032	Ic THAT 2180-LB VCA	6.0000	st
10250304	Ic TL-072 CP TI (dual-opamp)	33.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	3.0000	st
10600394	Ic-voet 8 pins (vork-contact)	66.0000	st
10600402	Ic-voet 8 pins SIL 2.54mm	6.0000	st
10600395	Ic-voet 14 pins (vork-contact)	14.0000	st
10600396	Ic-voet 16 pins (vork-contact)	33.0000	st
10600398	Ic-voet 20 pins (vork-contact)	11.0000	st
10600401	Ic-voet 28 pins (vork-contact)	2.0000	st
10600403	Ic-voet 68 pins (PLCC Socket)	1.0000	st
10300166	Instelpot 10-turn 22k (T18)	8.0000	st
10300519	Instelpot 10-turn 100k (T18)	1.0000	st
10300200	Instelpot 25-turn 20k H T93YB	2.0000	st
10450209	Knop Druktoets 2.8 black-squar	1.0000	st
10720662	Koelprof KL-169/SW TO-220	1.0000	st
10250396	Kristal 12.0000 MHz	1.0000	st
10250387	Led 3mm red round	1.0000	st
10250407	Led Matrix 30 mm TC12-11EWA	2.0000	st
10700690	Platstaf 25 x 10 x 10mm	1.0000	st
10700611	Popnagel 3.0 x 6.5 blank	4.0000	st
10300378	Potm.16 1x 10kA log	10.0000	st
10300372	Potm.16 1x 20kBcn lin	2.0000	st
10300370	Potm.16 2x 10kA log	2.0000	st
10300371	Potm.16 2x 10kBcn lin	1.0000	st
10201183	Print Cinemix 3B (master)	1.0000	st
10201184	Print Cinemix 4B (master)	1.0000	st
10201185	Print Cinemix 5A (master)	2.0000	st
10201178	Print Cinemix 6B (MASTER CPU)	1.0000	st
10201179	Print Cinemix 7B (keyboard 1)	1.0000	st
10201190	Print Cinemix41P (pinknoise)	1.0000	st
10201195	Print Phase-1A (phasemeter)	1.0000	st
10550001	Relais D1C121000 1xchgng minid	1.0000	st
10550418	Schakelaar ALPS 6xom mini NS	3.0000	st
10550205	Schakelaar Alps 2p mini MOMENT	12.0000	st
10550395	Schakelaar Alps 2p-ns (moment)	1.0000	st
10550414	Schakelaar Alps 2pole mini NS	22.0000	st
10550415	Schakelaar Alps 4pole mini NS	21.0000	st
10550206	Schakelaar Zippy Led black mom	41.0000	st
10550204	Schakelaar Zippy Led gray mom	18.0000	st
10550200	Schakelaar Zippy+led (red) mom	12.0000	st
10600414	Shunt 2p (mini-jumper)	18.0000	st
10250335	Transistor 2SB737 (pnp)	6.0000	st
10250333	Transistor BC-327/25 (pnp)	5.0000	st
10250332	Transistor BC-337/25 tape(npn)	3.0000	st
10350517	Weerstand 0E 5% 1/4W	12.0000	st
10350701	Weerstand 1E0 5% 1/4W	4.0000	st
10350729	Weerstand 1K0 5% 1/4W	10.0000	st
10350829	Weerstand 1K07 1% 1/4W	10.0000	st
10350827	Weerstand 1k10 1% 1/4W	2.0000	st
10350731	Weerstand 1k5 5% 1/4W	1.0000	st
10350833	Weerstand 1k50 1% 1/4W	6.0000	st
10350732	Weerstand 1k8 5% 1/4W	19.0000	st
10350703	Weerstand 2E2 5% 1/4W	23.0000	st
10350733	Weerstand 2K2 5% 1/4W	11.0000	st
10350842	Weerstand 3k01 1% 1/4W	1.0000	st
10350735	Weerstand 3k3 5% 1/4W	2.0000	st
10350736	Weerstand 3k9 5% 1/4W	12.0000	st
10350737	Weerstand 4k7 5% 1/4W	16.0000	st
10350738	Weerstand 5k6 5% 1/4W	3.0000	st
10350739	Weerstand 6k8 5% 1/4W	17.0000	st
10350740	Weerstand 8k2 5% 1/4W	3.0000	st
10350705	Weerstand 10E 5% 1/4W	10.0000	st
10350776	Weerstand 10M0 5% 1/4W	6.0000	st
10350741	Weerstand 10k 5% 1/4W	136.0000	st
10350848	Weerstand 10k0 1% 1/4W	169.0000	st
10350742	Weerstand 12k 5% 1/4W	3.0000	st
10350851	Weerstand 12k1 1% 1/4W	1.0000	st
10350743	Weerstand 15k 5% 1/4W	3.0000	st
10350852	Weerstand 15k0 1% 1/4W	1.0000	st
10350853	Weerstand 15k8 1% 1/4W	59.0000	st
10350744	Weerstand 18k 5% 1/4W	5.0000	st
10350856	Weerstand 20k0 1% 1/4W	20.0000	st
10350709	Weerstand 22E 5% 1/4W	1.0000	st

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883307 Cinemix film master

Articlecode	Description	Quantity	Unit
10350859	Weerstand 24k3 1% 1/4W	4.0000	st
10350746	Weerstand 27k 5% 1/4W	3.0000	st
10350713	Weerstand 47E 5% 1/4W	64.0000	st
10350749	Weerstand 47k 5% 1/4W	28.0000	st
10350714	Weerstand 56E 5% 1/4W	1.0000	st
10350717	Weerstand 100E 5% 1/4W	8.0000	st
10350753	Weerstand 100K 5% 1/4W	99.0000	st
10350719	Weerstand 150E 5% 1/4W	4.0000	st
10350755	Weerstand 150K 5% 1/4W	2.0000	st
10350720	Weerstand 180E 5% 1/4W	1.0000	st
10350756	Weerstand 180K 5% 1/4W	3.0000	st
10350721	Weerstand 220E 5% 1/4W	5.0000	st
10350757	Weerstand 220K 5% 1/4W	3.0000	st
10350891	Weerstand 324E 1% 1/4W	2.0000	st
10350725	Weerstand 470E 5% 1/4W	10.0000	st
10350761	Weerstand 470k 5% 1/4W	21.0000	st
10350726	Weerstand 560E 5% 1/4W	22.0000	st
10350864	Weerstand 649E 1% 1/4W	2.0000	st
10350029	Weerstand 680E array sil8 ncom	26.0000	st
10350763	Weerstand 680K 5% 1/4W	12.0000	st
10350031	Weerstand array 8x 10k 9p SIL	1.0000	st
10250340	Zenerdiode 2V4 / 400mW	7.0000	st
10250351	Zenerdiode 5V6 / 400mW	4.0000	st
10250353	Zenerdiode 12V0 / 1W	5.0000	st
10250359	Zenerdiode 15V0 / 400mW	1.0000	st
10250350	Zenerdiode 18V0 / 400mW	3.0000	st
10700652	Afstandshdr pl zeskant+tap15mm	1.0000	st
10650446	Bandkabel 10p (R 1.27)	10.0000	cm
10650448	Bandkabel 20p (R 1.27)	60.0000	cm
10650159	Bandkabel 34p (R 1.27)	160.0000	cm
10600173	Conn: 3p wrd:402-03*20cm 2.5T	2.0000	st
10600169	Conn: 4p wired:1=blk/gm/rd/bl	2.0000	st
10600434	Connector bandkabel female 10p	2.0000	st
10600466	Connector bandkabel female 16p	6.0000	st
10600132	Connector bandkabel female 34p	8.0000	st
10600136	Connector bandkabel male 20p	8.0000	st
10450153	Deksel SiFam 11mm black/5bulk	5.0000	st
10450195	Deksel SiFam 11mm gray bulk	10.0000	st
10450016	Deksel SiFam 21mm red bulk	2.0000	st
10550100	Encoder ECW 1 JB 24 BC 0024	1.0000	st
10300090	Fader JP 100mm stereo 10KA	1.0000	st
10101191	Front Cinemix 11A (master VU)	1.0000	st
10101180	Front Cinemix film naster	1.0000	st
10300461	Joystick RKJXB1210 10KBx2 ALPS	2.0000	st
10450209	Knop Druktoets 2.8 black-squar	12.0000	st
10450211	Knop Druktoets 2.8 grey-rectan	12.0000	st
10450208	Knop Druktoets 2.8 grey-square	14.0000	st
10450212	Knop Druktoets 2.8 red -rectan	17.0000	st
10450215	Knop Druktoets grey 12x12 3.3	1.0000	st
10450082	Knop Fader SiFam white (1.2x8)	1.0000	st
10450020	Knop Joystick black stuurknupp	2.0000	st
10450014	Knop SiFam 21mm grey 6mm shaft	2.0000	st
10450103	Knop SiFam grey splined(11mm)	15.0000	st
10250130	LCD BT22005 V-STF LED4-GBatron	1.0000	st
10250386	Led 3mm green round	55.0000	st
10250387	Led 3mm red round	26.0000	st
10970912	Microfoon (condens) (talkback)	1.0000	st
10700690	Platstaf 25 x 10 x 10mm	6.0000	st
10101196	Plexiglas DOT MATRIX Cinemix	2.0000	st
10101197	Plexiglas LCD scherm	1.0000	st
10700611	Popnagel 3.0 x 6.5 blank	12.0000	st
20851223	Print bestukt Cinemix3 (mstr)	1.0000	st
20851224	Print bestukt Cinemix4 (mstr)	1.0000	st
20851190	Print bestukt Cinemix41(Pinkn)	1.0000	st
20851225	Print bestukt Cinemix5 (mstr)	2.0000	st
20851178	Print bestukt Cinemix6b(mstr)	1.0000	st
20851179	Print bestukt Cinemix7b(keyb1)	1.0000	st
20851195	Print bestukt Phase-1	1.0000	st
10700786	Tapitite M3x5 verzkop/pozidr/zwr	2.0000	st
10700787	Tapitite M3x6 bolkoppozidr/zwr	30.0000	st
10700790	Tapitite M3x6 verzkop/pozidr/zwr	16.0000	st
10951003	VU meter AL19-WF / 24v lamp	3.0000	st
10951001	VU meter AL29-WF / 24v lamp	3.0000	st

60883308 Cinemix master

Articlecode	Description	Quantity	Unit
10950470	Batterij 3V (lithium knoopcel)	1.0000	st
10950471	Batterij houder knoopcel	1.0000	st
10400213	Condensator ker 10p R2.5	106.0000	st
10400216	Condensator ker 18p R2.5	10.0000	st
10400217	Condensator ker 22p R2.5	13.0000	st
10400221	Condensator ker 47p R2.5	8.0000	st
10400223	Condensator ker 68p R2.5	28.0000	st
10401241	Condensator ker 100nF/50V R5 T	252.0000	st
10401246	Condensator poly 1n0 R5.0	3.0000	st
10401268	Condensator poly 1uF R5.0	2.0000	st
10401250	Condensator poly 4n7 R5.0	2.0000	st
10401253	Condensator poly 10n R5.0	12.0000	st
10401258	Condensator poly 47n R5.0	1.0000	st
10401242	Condensator poly 82n R5.0	12.0000	st
10401261	Condensator poly 100n R5.0	3.0000	st
10400269	Condensator poly 220n R5.0	1.0000	st
10400270	Condensator poly 470n R5.0	3.0000	st
10250342	Diode 1N4148(signaal)	28.0000	st
10400279	Elco 1uF / 63V radiaal R5.0	5.0000	st
10400284	Elco 10uF / 40V radiaal R5.0	2.0000	st
10400286	Elco 22uF / 50V radiaal R5.0	3.0000	st
10400287	Elco 47uF / 25V radiaal R5.0	1.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	162.0000	st
10400280	Elco 2.2uF / 50V radiaal R5.0	1.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	37.0000	st
10250270	Fet BST76a /BS107 (Nch switch)	1.0000	st
10250338	Fet J112 (N-channel switch)	3.0000	st
10250017	Fet J175 (P-channel switch)	3.0000	st
10600452	Header 10p haaks (raster 2.54)	2.0000	st
10600540	Header 10p recht (raster 2.54)	1.0000	st
10600509	Header 20P Straight	3.0000	st
10600510	Header 2p Lock straightR 2.54)	1.0000	st
10600511	Header 3p Lock straightR 2.54)	4.0000	st
10600512	Header 4P lock straight(R2.54)	18.0000	st
10600515	Header haaks 4p lock (R 2.54)	1.0000	st
10600521	Header haaks 16p box (R 2.54)	2.0000	st
10600456	Header haaks 20p (raster 2.54)	5.0000	st
10600140	Header haaks 34p (raster 2.54)	6.0000	st
10600141	Header haaks 64p (raster 2.54)	8.0000	st
10600478	Header recht 4p (raster 2.54)	9.0000	st
10600435	Header recht 10p nobox(R 2.54)	4.0000	st
10600520	Header recht 16p box (R 2.54)	4.0000	st
10600518	Header recht 20p box (R 2.54)	1.0000	st
10600142	Header recht 34p (raster 2.54)	8.0000	st
10250026	Ic 27C512-10 EPROM 64K 100ns	1.0000	st
10250040	Ic 40106B (hex schmitt trig)	5.0000	st
10250025	Ic 4051B (8 chann multiplexer)	3.0000	st
10250057	Ic 4052 (dual analog mux)	7.0000	st
10250004	Ic 4053B (HCF4053 BEY)switch	5.0000	st
10250005	Ic 4093B (snand)	1.0000	st
10250094	Ic 4094 (8bit serial shiftreg)	9.0000	st
10250014	Ic 4N27(opto-coupler)	1.0000	st
10250039	Ic 62C256 (8 bit 32k ram)	1.0000	st
10250012	Ic 74HC125 (quad bistab. buf)	1.0000	st
10250034	Ic 74HC132 (quad 2inp.schmitt)	1.0000	st
10250048	Ic 74HC138 3to8 line decoder	2.0000	st
10250031	Ic 74HC148 (8/3 encoder)	1.0000	st
10250046	Ic 74HC259 8 bit adr latch	1.0000	st
10250033	Ic 74HC573 (octal-D latch)	1.0000	st
10250291	Ic 7805 TO220 SGS (volt.reg)	5.0000	st
10250036	Ic 80C552 (8-bit micro-comptr)	1.0000	st
10250275	Ic LM-1972N (M-DAC)	9.0000	st
10250316	Ic LM-339(comparator)	3.0000	st
10250307	Ic NE-5532 AP TI (dual-opamp)	31.0000	st
10250182	Ic SSM-2142 P (balanced out)	2.0000	st
10250032	Ic THAT 2180-LB VCA	6.0000	st
10250304	Ic TL-072 CP TI (dual-opamp)	33.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	3.0000	st
10600394	Ic-voet 8 pins (vork-contact)	66.0000	st
10600402	Ic-voet 8 pins SIL 2.54mm	6.0000	st
10600395	Ic-voet 14 pins (vork-contact)	14.0000	st
10600396	Ic-voet 16 pins (vork-contact)	28.0000	st
10600398	Ic-voet 20 pins (vork-contact)	10.0000	st
10600401	Ic-voet 28 pins (vork-contact)	2.0000	st
10600403	Ic-voet 68 pins (PLCC Socket)	1.0000	st
10300166	Instelpot 10-turn 22k (T18)	8.0000	st
10300519	Instelpot 10-turn 100k (T18)	1.0000	st
10300200	Instelpot 25-turn 20k H T93YB	2.0000	st
10450209	Knop Druktoets 2.8 black-squar	1.0000	st
10250396	Kristal 12.0000 MHz	1.0000	st
10250387	Led 3mm red round	1.0000	st
10250407	Led Matrix 30 mm TC12-11EWA	2.0000	st
10700690	Platstaf 25 x 10 x 10mm	1.0000	st
10700611	Popnagel 3.0 x 6.5 blank	4.0000	st
10300378	Potm16 1x 10kA log	10.0000	st
10300372	Potm16 1x 20kBcn lin	2.0000	st

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883308 Cinemix master							
Articlecode	Description	Quantity	Unit				
10300370	Potm16 2x 10kA log	2.0000	st	10550100	Encoder ECW 1 JB 24 BC 0024	2.0000	st
10300371	Potm16 2x 10kBcn lin	1.0000	st	10300090	Fader JP 100mm stereo 10KA	1.0000	st
10201183	Print Cinemix 3B (master)	1.0000	st	10101191	Front Cinemix 11A (master VU)	1.0000	st
10201184	Print Cinemix 4B (master)	1.0000	st	10101185	Front Cinemix 5B (master)	1.0000	st
10201185	Print Cinemix 5A (master)	2.0000	st	10300461	Joystick RKJXB1210 10KBx2 ALPS	2.0000	st
10201186	Print Cinemix 6A (master CPU)	1.0000	st	10450209	Knop Druktoets 2.8 black-squar	6.0000	st
10201187	Print Cinemix 7A (keyboard 1)	1.0000	st	10450211	Knop Druktoets 2.8 grey-rectan	12.0000	st
10201188	Print Cinemix 8A (keyboard 2)	1.0000	st	10450208	Knop Druktoets 2.8 grey-square	20.0000	st
10201190	Print Cinemix41P (pinknoise)	1.0000	st	10450212	Knop Druktoets 2.8 red -rectan	21.0000	st
10201195	Print Phase-1A (phasemeter)	1.0000	st	10450215	Knop Druktoets grey 12x12 3.3	1.0000	st
10550001	Relais D1C121000 1xchngc minid	1.0000	st	10450082	Knop Fader SiFam white (1.2x8)	1.0000	st
10550418	Schakelaar ALPS 6xom mini NS	3.0000	st	10450020	Knop Joystick black stuurknupp	2.0000	st
10550205	Schakelaar Alps 2p mini MOMENT	17.0000	st	10450014	Knop SiFam 21mm grey 6mm shaft	1.0000	st
10550395	Schakelaar Alps 2p-ns (moment)	1.0000	st	10450015	Knop SiFam 38mm grey 1/4 shaft	1.0000	st
10550414	Schakelaar Alps 2pole mini NS	24.0000	st	10450103	Knop SiFam grey splined(11mm)	15.0000	st
10550415	Schakelaar Alps 4pole mini NS	21.0000	st	10250130	LCD BT22005 V-STF LED4-GBatron	1.0000	st
10550206	Schakelaar Zippy Led black mom	20.0000	st	10250386	Led 3mm green round	41.0000	st
10550204	Schakelaar Zippy Led gray mom	9.0000	st	10250387	Led 3mm red round	39.0000	st
10550200	Schakelaar Zippy+led (red) mom	5.0000	st	10970912	Microfoon (condens) (talkback)	1.0000	st
10600414	Shunt 2p (mini-jumper)	18.0000	st	10700690	Platstaf 25 x 10 x 10mm	8.0000	st
10250335	Transistor 2SB737 (pnp)	6.0000	st	10101196	Plexiglas DOT MATRIX Cinemix	2.0000	st
10250333	Transistor BC-327/25 (pnp)	5.0000	st	10101197	Plexiglas LCD scherm	1.0000	st
10250332	Transistor BC-337/25 tape(npn)	3.0000	st	10700611	Popnagel 3.0 x 6.5 blank	14.0000	st
10350517	Weerstand 0E 5% 1/4W	16.0000	st	20851223	Print bestukt Cinemix3 (mstr)	1.0000	st
10350701	Weerstand 1E0 5% 1/4W	4.0000	st	20851224	Print bestukt Cinemix4 (mstr)	1.0000	st
10350729	Weerstand 1k0 5% 1/4W	10.0000	st	20851190	Print bestukt Cinemix41(Pinkn)	1.0000	st
10350829	Weerstand 1k07 1% 1/4W	10.0000	st	20851225	Print bestukt Cinemix5 (mstr)	2.0000	st
10350827	Weerstand 1k10 1% 1/4W	2.0000	st	20851226	Print bestukt Cinemix6 (mstr)	1.0000	st
10350731	Weerstand 1k5 5% 1/4W	1.0000	st	20851227	Print bestukt Cinemix7 (key1)	1.0000	st
10350833	Weerstand 1k50 1% 1/4W	6.0000	st	20851228	Print bestukt Cinemix8 (key2)	1.0000	st
10350732	Weerstand 1k8 5% 1/4W	17.0000	st	20851195	Print bestukt Phase-1	1.0000	st
10350703	Weerstand 2E2 5% 1/4W	24.0000	st	10550451	Schak Miyama WHI OFF(ON)LEDred	1.0000	st
10350733	Weerstand 2k2 5% 1/4W	11.0000	st	10700786	Tapitite M3x5 verzkop/pozidtr/zw	2.0000	st
10350842	Weerstand 3k01 1% 1/4W	1.0000	st	10700787	Tapitite M3x6 bolkoppozidtr/zwr	30.0000	st
10350735	Weerstand 3k3 5% 1/4W	2.0000	st	10700790	Tapitite M3x6 verzkop/pozidtr/zw	8.0000	st
10350736	Weerstand 3k9 5% 1/4W	12.0000	st	10951003	VU meter AL19-WF / 24v lamp	3.0000	st
10350737	Weerstand 4k7 5% 1/4W	16.0000	st	10951001	VU meter AL29-WF / 24v lamp	3.0000	st
10350738	Weerstand 5k6 5% 1/4W	2.0000	st	60883310 Cinemix dual inline channel			
10350739	Weerstand 6k8 5% 1/4W	17.0000	st	Articlecode	Description	Quantity	Unit
10350740	Weerstand 8k2 5% 1/4W	3.0000	st	10400213	Condensator ker 10p R2.5	12.0000	st
10350705	Weerstand 10E 5% 1/4W	10.0000	st	10400215	Condensator ker 15p R2.5	2.0000	st
10350776	Weerstand 10M0 5% 1/4W	6.0000	st	10400216	Condensator ker 18p R2.5	11.0000	st
10350741	Weerstand 10k 5% 1/4W	153.0000	st	10400217	Condensator ker 22p R2.5	1.0000	st
10350848	Weerstand 10k0 1% 1/4W	169.0000	st	10400221	Condensator ker 47p R2.5	3.0000	st
10350742	Weerstand 12k 5% 1/4W	3.0000	st	10400232	Condensator ker 470p R2.5	1.0000	st
10350743	Weerstand 15k 5% 1/4W	3.0000	st	10401241	Condensator ker 100nF/50V R5 T	69.0000	st
10350852	Weerstand 15k0 1% 1/4W	1.0000	st	10401246	Condensator poly 1n0 R5.0	2.0000	st
10350853	Weerstand 15k8 1% 1/4W	59.0000	st	10401247	Condensator poly 1n5 R5.0	2.0000	st
10350744	Weerstand 18k 5% 1/4W	5.0000	st	10401268	Condensator poly 1uF R5.0	3.0000	st
10350856	Weerstand 20k0 1% 1/4W	20.0000	st	10401250	Condensator poly 4n7 R5.0	2.0000	st
10350709	Weerstand 22E 5% 1/4W	1.0000	st	10401251	Condensator poly 6n8 R5.0	4.0000	st
10350745	Weerstand 22k 5% 1/4W	1.0000	st	10400277	Condensator poly 22n R5.0	2.0000	st
10350859	Weerstand 24k3 1% 1/4W	4.0000	st	10401258	Condensator poly 47n R5.0	6.0000	st
10350746	Weerstand 27k 5% 1/4W	3.0000	st	10401260	Condensator poly 68n R5.0	2.0000	st
10350713	Weerstand 47E 5% 1/4W	64.0000	st	10401242	Condensator poly 82n R5.0	2.0000	st
10350749	Weerstand 47k 5% 1/4W	30.0000	st	10401261	Condensator poly 100n R5.0	2.0000	st
10350714	Weerstand 56E 5% 1/4W	1.0000	st	10400270	Condensator poly 470n R5.0	2.0000	st
10350717	Weerstand 100E 5% 1/4W	2.0000	st	10250342	Diode 1N4148(signaal)	2.0000	st
10350753	Weerstand 100K 5% 1/4W	99.0000	st	10400279	Elco 1uF / 63V radiaal R5.0	2.0000	st
10350719	Weerstand 150E 5% 1/4W	4.0000	st	10400292	Elco 100uF / 25V radiaal R5.0	35.0000	st
10350755	Weerstand 150K 5% 1/4W	2.0000	st	10400302	Elco 100uF / 63V radiaal R5.0	3.0000	st
10350720	Weerstand 180E 5% 1/4W	1.0000	st	10400280	Elco 2.2uF / 50V radiaal R5.0	2.0000	st
10350756	Weerstand 180K 5% 1/4W	3.0000	st	10400290	Elco 220uF / 25V radiaal R5.0	5.0000	st
10350721	Weerstand 220E 5% 1/4W	8.0000	st	10400303	Elco 1000uF / 10V radiaal R5.0	1.0000	st
10350757	Weerstand 220K 5% 1/4W	3.0000	st	10250338	Fet J112 (N-channel switch)	3.0000	st
10350725	Weerstand 470E 5% 1/4W	9.0000	st	10250017	Fet J175 (P-channel switch)	3.0000	st
10350761	Weerstand 470k 5% 1/4W	20.0000	st	10600511	Header 3p Lock straight(R 2.54)	3.0000	st
10350726	Weerstand 560E 5% 1/4W	70.0000	st	10600512	Header 4P lock straight(R2.54)	4.0000	st
10350763	Weerstand 680k 5% 1/4W	12.0000	st	10600456	Header haaks 20p (raster 2.54)	1.0000	st
10250340	Zenerdiode 2V4 / 400mW	7.0000	st	10600140	Header haaks 34p (raster 2.54)	3.0000	st
10250351	Zenerdiode 5V6 / 400mW	4.0000	st	10600141	Header haaks 64p (raster 2.54)	2.0000	st
10250353	Zenerdiode 12V0 / 1W	5.0000	st	10600478	Header recht 4p (raster 2.54)	6.0000	st
10250359	Zenerdiode 15V0 / 400mW	1.0000	st	10600435	Header recht 10p nobox(R 2.54)	5.0000	st
10250350	Zenerdiode 18V0 / 400mW	3.0000	st	10250004	Ic 4053B (HCF4053 BEY)switch	16.0000	st
10700652	Afstandshdr pl zeskant+tap15mm	1.0000	st	10250005	Ic 4093B (snand)	1.0000	st
10650446	Bandkabel 10p (R 1.27)	10.0000	cm	10250094	Ic 4094 (8bit serial shiftreg)	4.0000	st
10650448	Bandkabel 20p (R 1.27)	60.0000	cm	10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st
10650159	Bandkabel 34p (R 1.27)	160.0000	cm	10250307	Ic NE-5532 AP TI (dual-opamp)	4.0000	st
10700630	Bout M 2 x 4 verzonken zwart	8.0000	st	10250306	Ic NE-5534 AP TI(single-opamp)	1.0000	st
10600173	Conn: 3p wrd:402-03*20cm 2.5T	2.0000	st	10250184	Ic SSM-2017 P (audio pre-amp)	1.0000	st
10600169	Conn: 4p wired:1=blkg/rn/rd/bl	2.0000	st	10250032	Ic THAT 2180-LB VCA	2.0000	st
10600434	Connector bandkabel female 10p	2.0000	st	10250304	Ic TL-072 CP TI (dual-opamp)	7.0000	st
10600466	Connector bandkabel female 16p	6.0000	st	10250305	Ic TL-074 CN TI (quad-opamp)	2.0000	st
10600132	Connector bandkabel female 34p	8.0000	st	10600394	Ic-voet 8 pins (vork-contact)	13.0000	st
10600136	Connector bandkabel male 20p	8.0000	st				
10450153	Deksel SiFam 11mm black/5bulk	5.0000	st				
10450195	Deksel SiFam 11mm gray bulk	10.0000	st				
10450016	Deksel SiFam 21mm red bulk	1.0000	st				
10450017	Deksel SiFam 38mm gray bulk	1.0000	st				

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883310 Cinemix dual inline channel

Articlecode	Description	Quantity	Unit
10600402	Ic-voet 8 pins SIL 2.54mm	2.0000	st
10600395	Ic-voet 14 pins (vork-contact)	3.0000	st
10600396	Ic-voet 16 pins (vork-contact)	20.0000	st
10300200	Instelpot 25-turn 20k H T93YB	1.0000	st
10300401	Potm.97 100kCx2/10kB CC	8.0000	st
10300403	Potm.97 10KBx2 CC	1.0000	st
10300406	Potm.97 10KBx2/10KBx2 10KMN CC	1.0000	st
10300402	Potm.97 10kx2 CC / 10KA	1.0000	st
10300405	Potm.97 20KB/20KB 10KRD	1.0000	st
10300404	Potm.97 50kA/50kA	4.0000	st
10201181	Print Cinemix 1C (channel)	1.0000	st
10201191	Print Cinemix10C (routing)	1.0000	st
10550205	Schakelaar Alps 2p mini MOMENT	4.0000	st
10550414	Schakelaar Alps 2pole mini NS	9.0000	st
10550415	Schakelaar Alps 4pole mini NS	6.0000	st
10600414	Shunt 2p (mini-jumper)	7.0000	st
10250332	Transistor BC-337/25 tape(npn)	4.0000	st
10350517	Weerstand 0E 5% 1/4W	1.0000	st
10350701	Weerstand 1E0 5% 1/4W	1.0000	st
10350729	Weerstand 1k0 5% 1/4W	7.0000	st
10350827	Weerstand 1k10 1% 1/4W	2.0000	st
10350832	Weerstand 1k37 1% 1/4W	2.0000	st
10350731	Weerstand 1k5 5% 1/4W	4.0000	st
10350732	Weerstand 1k8 5% 1/4W	4.0000	st
10350703	Weerstand 2E2 5% 1/4W	6.0000	st
10350733	Weerstand 2k2 5% 1/4W	5.0000	st
10350736	Weerstand 3k9 5% 1/4W	11.0000	st
10350704	Weerstand 4E7 5% 1/4W	1.0000	st
10350737	Weerstand 4k7 5% 1/4W	20.0000	st
10350844	Weerstand 4k75 1% 1/4W	2.0000	st
10350845	Weerstand 5k62 1% 1/4W	1.0000	st
10350846	Weerstand 6K81 1% 1/4W	2.0000	st
10350739	Weerstand 6k8 5% 1/4W	4.0000	st
10350776	Weerstand 10M0 5% 1/4W	6.0000	st
10350741	Weerstand 10k 5% 1/4W	35.0000	st
10351741	Weerstand 10k 1/8W 5%	43.0000	st
10350848	Weerstand 10k0 1% 1/4W	19.0000	st
10350850	Weerstand 11k0 1% 1/4W	2.0000	st
10350853	Weerstand 15k8 1% 1/4W	3.0000	st
10350856	Weerstand 20k0 1% 1/4W	4.0000	st
10350882	Weerstand 30k1 1% 1/4W	4.0000	st
10350711	Weerstand 33E 5% 1/4W	1.0000	st
10350713	Weerstand 47E 5% 1/4W	8.0000	st
10350749	Weerstand 47k 5% 1/4W	16.0000	st
10350714	Weerstand 56E 5% 1/4W	2.0000	st
10350717	Weerstand 100E 5% 1/4W	4.0000	st
10350753	Weerstand 100K 5% 1/4W	21.0000	st
10350725	Weerstand 470E 5% 1/4W	7.0000	st
10350761	Weerstand 470k 5% 1/4W	2.0000	st
10350726	Weerstand 560E 5% 1/4W	7.0000	st
10350763	Weerstand 680k 5% 1/4W	2.0000	st
10250351	Zenerdiode 5V6 / 400mW	4.0000	st
10250353	Zenerdiode 12V0 / 1W	1.0000	st
10250350	Zenerdiode 18V0 / 400mW	3.0000	st
10700659	Afstandshdr mt zeskant+tap15mm	3.0000	st
10650159	Bandkabel 34p (R 1.27)	10.0000	cm
10600171	Conn: 3p wired:1=blk/grn/red	1.0000	st
10600169	Conn: 4p wired:1=blk/grn/rd/bl	1.0000	st
10600132	Connector bandkabel female 34p	2.0000	st
10450151	Deksel SiFam 11mm Hopsack/117	2.0000	st
10450153	Deksel SiFam 11mm black/5bulk	2.0000	st
10450182	Deksel SiFam 11mm blue bulk	2.0000	st
10450195	Deksel SiFam 11mm gray bulk	5.0000	st
10450194	Deksel SiFam 11mm green bulk	2.0000	st
10450155	Deksel SiFam 11mm pst grn bulk	2.0000	st
10450152	Deksel SiFam 11mm red/7 bulk	1.0000	st
10101181	Front Cinemix 1B (channel)	1.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	35.0000	cm
10450209	Knop Druktoets 2.8 black-squar	5.0000	st
10450211	Knop Druktoets 2.8 grey-rectan	2.0000	st
10450208	Knop Druktoets 2.8 grey-square	9.0000	st
10450212	Knop Druktoets 2.8 red -rectan	2.0000	st
10450210	Knop Druktoets 2.8 red-square	1.0000	st
10450101	Knop SiFam grey Alps(bot15mm)	15.0000	st
10450100	Knop SiFam grey spli(top11mm)	15.0000	st
10450103	Knop SiFam grey splined(11mm)	1.0000	st
10500683	Krimpkous 3.2mm RNF-100 1/8"zw	4.0000	cm
10250386	Led 3mm green round	17.0000	st
10250387	Led 3mm red round	7.0000	st
10250388	Led 3mm yellow round	3.0000	st
10700610	Moer M 3	3.0000	st
10700606	Popnagel 3x7 zwart ano alu/sta	2.0000	st
20851181	Print bestukt Cinemix1 (chan.)	1.0000	st
20851191	Print bestukt Cinemix10(rout.)	1.0000	st
10550451	Schak Miyama WHI OFF(ON)LEDred	1.0000	st
10700787	Tapitite M3x6 bolkoppozidr/zwrt	2.0000	st
10700790	Tapitite M3x6 verzkop/pozidr/zw	3.0000	st
10600422	XLR chass fem zwrt Neutrik met	1.0000	st

60883311 Cinemix film inline channel

Articlecode	Description	Quantity	Unit
10400213	Condensator ker 10p R2.5	21.0000	st
10400215	Condensator ker 15p R2.5	2.0000	st
10400216	Condensator ker 18p R2.5	11.0000	st
10400221	Condensator ker 47p R2.5	4.0000	st
10400232	Condensator ker 470p R2.5	1.0000	st
10401241	Condensator ker 100nF/50V R5 T	85.0000	st
10401246	Condensator poly 1n0 R5.0	2.0000	st
10401247	Condensator poly 1n5 R5.0	2.0000	st
10401268	Condensator poly 1uF R5.0	3.0000	st
10401250	Condensator poly 4n7 R5.0	2.0000	st
10401251	Condensator poly 6n8 R5.0	4.0000	st
10400277	Condensator poly 22n R5.0	2.0000	st
10401258	Condensator poly 47n R5.0	6.0000	st
10401260	Condensator poly 68n R5.0	2.0000	st
10401242	Condensator poly 82n R5.0	2.0000	st
10401261	Condensator poly 100n R5.0	2.0000	st
10400270	Condensator poly 470n R5.0	2.0000	st
10250342	Diode 1N4148(signaal)	6.0000	st
10400279	Elco 1uF / 63V radiaal R5.0	2.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	44.0000	st
10400302	Elco 100uF / 63V radiaal R5.0	3.0000	st
10400280	Elco 2.2uF / 50V radiaal R5.0	2.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	5.0000	st
10400303	Elco 1000uF / 10V radiaal R5.0	1.0000	st
10250338	Fet J112 (N-channel switch)	3.0000	st
10250017	Fet J175 (P-channel switch)	3.0000	st
10600511	Header 3p Lock straight(R 2.54)	3.0000	st
10600512	Header 4P lock straight(R2.54)	4.0000	st
10600456	Header haaks 20p (raster 2.54)	1.0000	st
10600140	Header haaks 34p (raster 2.54)	3.0000	st
10600141	Header haaks 64p (raster 2.54)	2.0000	st
10600478	Header recht 4p (raster 2.54)	6.0000	st
10600435	Header recht 10p nobox(R 2.54)	5.0000	st
10250004	Ic 4053B (HCF4053 BEY)switch	22.0000	st
10250005	Ic 4093B (snand)	1.0000	st
10250094	Ic 4094 (8bit serial shiftreg)	6.0000	st
10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st
10250307	Ic NE-5532 AP TI (dual-opamp)	4.0000	st
10250306	Ic NE-5534 AP TI(single-opamp)	1.0000	st
10250184	Ic SSM-2017 P (audio pre-amp)	1.0000	st
10250032	Ic THAT 2180-LB VCA	2.0000	st
10250304	Ic TL-072 CP TI (dual-opamp)	12.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	2.0000	st
10600394	Ic-voet 8 pins (vork-contact)	18.0000	st
10600402	Ic-voet 8 pins SIL 2.54mm	2.0000	st
10600395	Ic-voet 14 pins (vork-contact)	3.0000	st
10600396	Ic-voet 16 pins (vork-contact)	28.0000	st
10300200	Instelpot 25-turn 20k H T93YB	1.0000	st
10300401	Potm.97 100kCx2/10kB CC	8.0000	st
10300403	Potm.97 10KBx2 CC	1.0000	st
10300406	Potm.97 10KBx2/10KBx2 10KMN CC	1.0000	st
10300402	Potm.97 10kx2 CC / 10KA	1.0000	st
10300405	Potm.97 20KB/20KB 10KRD	1.0000	st
10300404	Potm.97 50kA/50kA	4.0000	st
10201180	Print Cinemix 10c (routing)	1.0000	st
10201181	Print Cinemix 1C (channel)	1.0000	st
10550205	Schakelaar Alps 2p mini MOMENT	4.0000	st
10550414	Schakelaar Alps 2pole mini NS	9.0000	st
10550415	Schakelaar Alps 4pole mini NS	6.0000	st
10600414	Shunt 2p (mini-jumper)	7.0000	st
10250332	Transistor BC-337/25 tape(npn)	4.0000	st
10350517	Weerstand 0E 5% 1/4W	1.0000	st
10350701	Weerstand 1E0 5% 1/4W	1.0000	st
10350729	Weerstand 1k0 5% 1/4W	7.0000	st
10350827	Weerstand 1k10 1% 1/4W	2.0000	st
10350832	Weerstand 1k37 1% 1/4W	2.0000	st
10350731	Weerstand 1k5 5% 1/4W	4.0000	st
10350732	Weerstand 1k8 5% 1/4W	4.0000	st
10350703	Weerstand 2E2 5% 1/4W	6.0000	st
10350733	Weerstand 2k2 5% 1/4W	5.0000	st
10350736	Weerstand 3k9 5% 1/4W	11.0000	st
10350704	Weerstand 4E7 5% 1/4W	1.0000	st
10350737	Weerstand 4k7 5% 1/4W	20.0000	st
10350844	Weerstand 4k75 1% 1/4W	2.0000	st
10350845	Weerstand 5k62 1% 1/4W	1.0000	st
10350846	Weerstand 6K81 1% 1/4W	2.0000	st
10350739	Weerstand 6k8 5% 1/4W	4.0000	st
10350776	Weerstand 10M0 5% 1/4W	6.0000	st
10350741	Weerstand 10k 5% 1/4W	35.0000	st
10350848	Weerstand 10k0 1% 1/4W	91.0000	st
10350850	Weerstand 11k0 1% 1/4W	2.0000	st
10350853	Weerstand 15k8 1% 1/4W	3.0000	st
10350856	Weerstand 20k0 1% 1/4W	4.0000	st

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883311 Cinemix film inline channel				10250305 Ic TL-074 CN TI (quad-opamp)			
Articlecode	Description	Quantity	Unit	10600394	Ic-voet 8 pins (vork-contact)	12.0000	st
10350882	Weerstand 30k1 1% 1/4W	4.0000	st	10600402	Ic-voet 8 pins SIL 2.54mm	4.0000	st
10350711	Weerstand 33E 5% 1/4W	1.0000	st	10600395	Ic-voet 14 pins (vork-contact)	5.0000	st
10350713	Weerstand 47E 5% 1/4W	8.0000	st	10600396	Ic-voet 16 pins (vork-contact)	20.0000	st
10350749	Weerstand 47k 5% 1/4W	20.0000	st	10300408	Potm.97 10KBx2 CC	8.0000	st
10350714	Weerstand 56E 5% 1/4W	2.0000	st	10300403	Potm.97 10KBx2 CC	2.0000	st
10350717	Weerstand 100E 5% 1/4W	4.0000	st	10300407	Potm.97 10KBx2/10KBx2	2.0000	st
10350753	Weerstand 100K 5% 1/4W	21.0000	st	10300404	Potm.97 50kA/50kA	4.0000	st
10350725	Weerstand 470E 5% 1/4W	7.0000	st	10201182	Print Cinemix 2A (st.chan.)	1.0000	st
10350761	Weerstand 470k 5% 1/4W	2.0000	st	10201191	Print Cinemix10C (routing)	1.0000	st
10350726	Weerstand 560E 5% 1/4W	7.0000	st	10550205	Schakelaar Alps 2p mini MOMENT	4.0000	st
10350763	Weerstand 680K 5% 1/4W	2.0000	st	10550414	Schakelaar Alps 2pole mini NS	2.0000	st
10250351	Zenerdiode 5V6 / 400mW	4.0000	st	10550415	Schakelaar Alps 4pole mini NS	10.0000	st
10250353	Zenerdiode 12V0 / 1W	1.0000	st	10600414	Shunt 2p (mini-jumper)	10.0000	st
10250350	Zenerdiode 18V0 / 400mW	3.0000	st	10250332	Transistor BC-337/25 tape(npn)	2.0000	st
10700659	Afstandshdr mt zeskant+tap15mm	3.0000	st	10350517	Weerstand 0E 5% 1/4W	1.0000	st
10650159	Bandkabel 34p (R 1.27)	10.0000	cm	10350701	Weerstand 1E0 5% 1/4W	1.0000	st
10600171	Conn: 3p wired: 1=blk/grn/red	1.0000	st	10350729	Weerstand 1k0 5% 1/4W	4.0000	st
10600169	Conn: 4p wired: 1=blk/grn/rd/bl	1.0000	st	10350827	Weerstand 1k10 1% 1/4W	2.0000	st
10600132	Connector bandkabel female 34p	2.0000	st	10350832	Weerstand 1k37 1% 1/4W	2.0000	st
10450151	Deksel SiFam 11mm Hopsack/117	2.0000	st	10350731	Weerstand 1k5 5% 1/4W	8.0000	st
10450153	Deksel SiFam 11mm black/5bulk	2.0000	st	10350732	Weerstand 1k8 5% 1/4W	16.0000	st
10450182	Deksel SiFam 11mm blue bulk	2.0000	st	10350703	Weerstand 2E2 5% 1/4W	6.0000	st
10450195	Deksel SiFam 11mm gray bulk	5.0000	st	10350733	Weerstand 2k2 5% 1/4W	4.0000	st
10450194	Deksel SiFam 11mm green bulk	2.0000	st	10350735	Weerstand 3k3 5% 1/4W	4.0000	st
10450155	Deksel SiFam 11mm pst grn bulk	2.0000	st	10350736	Weerstand 3k9 5% 1/4W	8.0000	st
10450152	Deksel SiFam 11mm red/7 bulk	1.0000	st	10350737	Weerstand 4k7 5% 1/4W	8.0000	st
10101181	Front Cinemix 1B (channel)	1.0000	st	10350739	Weerstand 6k8 5% 1/4W	8.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	35.0000	cm	10350776	Weerstand 10M0 5% 1/4W	8.0000	st
10450209	Knop Druktoets 2.8 black-squar	5.0000	st	10350741	Weerstand 10k 5% 1/4W	34.0000	st
10450211	Knop Druktoets 2.8 grey-rectan	2.0000	st	10351741	Weerstand 10k 1/8W 5%	43.0000	st
10450208	Knop Druktoets 2.8 grey-square	9.0000	st	10350848	Weerstand 10k0 1% 1/4W	18.0000	st
10450212	Knop Druktoets 2.8 red -rectan	2.0000	st	10350850	Weerstand 11k0 1% 1/4W	2.0000	st
10450210	Knop Druktoets 2.8 red-square	1.0000	st	10350743	Weerstand 15k 5% 1/4W	8.0000	st
10450101	Knop SiFam grey Alps(bot15mm)	15.0000	st	10350856	Weerstand 20k0 1% 1/4W	12.0000	st
10450100	Knop SiFam grey spli(top11mm)	15.0000	st	10350713	Weerstand 47E 5% 1/4W	2.0000	st
10450103	Knop SiFam grey splined(11mm)	1.0000	st	10350749	Weerstand 47k 5% 1/4W	30.0000	st
10500683	Krimpous 3.2mm RNF-100 1/8"zw	4.0000	cm	10350714	Weerstand 56E 5% 1/4W	2.0000	st
10250386	Led 3mm green round	17.0000	st	10350717	Weerstand 100E 5% 1/4W	4.0000	st
10250387	Led 3mm red round	7.0000	st	10350753	Weerstand 100K 5% 1/4W	20.0000	st
10250388	Led 3mm yellow round	3.0000	st	10350725	Weerstand 470E 5% 1/4W	10.0000	st
10700610	Moer M 3	3.0000	st	10350761	Weerstand 470k 5% 1/4W	2.0000	st
10700606	Popnagel 3x7 zwart ano alu/sta	2.0000	st	10350726	Weerstand 560E 5% 1/4W	10.0000	st
20851181	Print bestukt Cinemix1 (chan.)	1.0000	st	10350763	Weerstand 680k 5% 1/4W	2.0000	st
20851180	Print bestukt Cinemix10c(rout)	1.0000	st	10250353	Zenerdiode 12V0 / 1W	1.0000	st
10550451	Schak Miyama WHI OFF(ON)LEDred	1.0000	st	10250350	Zenerdiode 18V0 / 400mW	2.0000	st
10700787	Tapitite M3x6 bolkoppozidr/zwr	2.0000	st	10700659	Afstandshdr mt zeskant+tap15mm	3.0000	st
10700790	Tapitite M3x6 verzkop/pozidr/zw	3.0000	st	10650159	Bandkabel 34p (R 1.27)	10.0000	cm
10600422	XLR chass fem zwrt Neutrik met	1.0000	st	10600169	Conn: 4p wired: 1=blk/grn/rd/bl	1.0000	st
60883312 Cinemix stereo channel				10600132	Connector bandkabel female 34p	2.0000	st
Articlecode	Description	Quantity	Unit	10450151	Deksel SiFam 11mm Hopsack/117	2.0000	st
10400213	Condensator ker 10p R2.5	24.0000	st	10450153	Deksel SiFam 11mm black/5bulk	2.0000	st
10400216	Condensator ker 18p R2.5	8.0000	st	10450182	Deksel SiFam 11mm blue bulk	2.0000	st
10400217	Condensator ker 22p R2.5	1.0000	st	10450195	Deksel SiFam 11mm gray bulk	5.0000	st
10400221	Condensator ker 47p R2.5	4.0000	st	10450194	Deksel SiFam 11mm green bulk	2.0000	st
10401241	Condensator ker 100nF/50V R5 T	75.0000	st	10450152	Deksel SiFam 11mm red/7 bulk	1.0000	st
10401268	Condensator poly 1uF R5.0	2.0000	st	10101182	Front Cinemix 2A (stchannel)	1.0000	st
10401249	Condensator poly 3n3 R5.0	8.0000	st	10450209	Knop Druktoets 2.8 black-squar	4.0000	st
10401250	Condensator poly 4n7 R5.0	8.0000	st	10450211	Knop Druktoets 2.8 grey-rectan	2.0000	st
10401257	Condensator poly 33n R5.0	8.0000	st	10450208	Knop Druktoets 2.8 grey-square	5.0000	st
10401258	Condensator poly 47n R5.0	6.0000	st	10450212	Knop Druktoets 2.8 red -rectan	2.0000	st
10401242	Condensator poly 82n R5.0	2.0000	st	10450210	Knop Druktoets 2.8 red-square	3.0000	st
10401261	Condensator poly 100n R5.0	6.0000	st	10450101	Knop SiFam grey Alps(bot15mm)	6.0000	st
10400270	Condensator poly 470n R5.0	2.0000	st	10450100	Knop SiFam grey spli(top11mm)	6.0000	st
10250342	Diode 1N4148(signaal)	2.0000	st	10450103	Knop SiFam grey splined(11mm)	10.0000	st
10400279	Elco 1uF / 63V radiaal R5.0	4.0000	st	10500681	Krimpous 2.4 mm(rond) zwart	2.0000	cm
10400292	Elco 100uF / 25V radiaal R5.0	41.0000	st	10250386	Led 3mm green round	14.0000	st
10400280	Elco 2.2uF / 50V radiaal R5.0	2.0000	st	10250387	Led 3mm red round	6.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	5.0000	st	10250388	Led 3mm yellow round	3.0000	st
10250338	Fet J112 (N-channel switch)	4.0000	st	10700610	Moer M 3	3.0000	st
10250017	Fet J175 (P-channel switch)	4.0000	st	20851191	Print bestukt Cinemix10(rout.)	1.0000	st
10600511	Header 3p Lock straight(R 2.54)	2.0000	st	20851182	Print bestukt Cinemix2 (st.ch)	1.0000	st
10600512	Header 4P lock straight(R2.54)	7.0000	st	10550451	Schak Miyama WHI OFF(ON)LEDred	1.0000	st
10600456	Header haaks 20p (raster 2.54)	1.0000	st	10700292	Tapit M3X10 verzkop/pozidr/zw	3.0000	st
10600140	Header haaks 34p (raster 2.54)	3.0000	st	10700787	Tapitite M3x6 bolkoppozidr/zwr	2.0000	st
10600141	Header haaks 64p (raster 2.54)	2.0000	st				
10600478	Header recht 4p (raster 2.54)	8.0000	st				
10600435	Header recht 10p nobox(R 2.54)	5.0000	st				
10600438	Header recht 16p nobox(R 2.54)	2.0000	st				
10250004	Ic 4053B (HCF4053 BEY)switch	16.0000	st				
10250005	Ic 4093B (snand)	1.0000	st				
10250094	Ic 4094 (8bit serial shiftreg)	4.0000	st				
10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st				
10250307	Ic NE-5532 AP TI (dual-opamp)	6.0000	st				
10250306	Ic NE-5534 AP TI(single-opamp)	1.0000	st				
10250032	Ic THAT 2180-LB VCA	4.0000	st				
10250304	Ic TL-072 CP TI (dual-opamp)	5.0000	st				

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883313 Cinemix film stereo channel									
Articlecode	Description	Quantity	Unit		Articlecode	Description	Quantity	Unit	
10400213	Condensator ker 10p R2.5	33.0000	st		10450194	Deksel SiFam 11mm green bulk	2.0000	st	
10400216	Condensator ker 18p R2.5	8.0000	st		10450152	Deksel SiFam 11mm red/7 bulk	1.0000	st	
10400221	Condensator ker 47p R2.5	5.0000	st		10101182	Front Cinemix 2A (stchannel)	1.0000	st	
10401241	Condensator ker 100nF/50V R5 T	91.0000	st		10450209	Knop Druktoets 2.8 black-squar	4.0000	st	
10401268	Condensator poly 1uF R5.0	2.0000	st		10450211	Knop Druktoets 2.8 grey-rectan	2.0000	st	
10401249	Condensator poly 3n3 R5.0	8.0000	st		10450208	Knop Druktoets 2.8 grey-square	5.0000	st	
10401250	Condensator poly 4n7 R5.0	8.0000	st		10450212	Knop Druktoets 2.8 red -rectan	2.0000	st	
10401257	Condensator poly 33n R5.0	8.0000	st		10450210	Knop Druktoets 2.8 red-square	3.0000	st	
10401258	Condensator poly 47n R5.0	6.0000	st		10450101	Knop SiFam grey Alps(bot15mm)	6.0000	st	
10401242	Condensator poly 82n R5.0	2.0000	st		10450100	Knop SiFam grey spli(top11mm)	6.0000	st	
10401261	Condensator poly 100n R5.0	6.0000	st		10450103	Knop SiFam grey splined(11mm)	10.0000	st	
10400270	Condensator poly 470n R5.0	2.0000	st		10500681	Krimpous 2.4 mm(rond) zwart	2.0000	cm	
10250342	Diode 1N4148(signaal)	6.0000	st		10250386	Led 3mm green round	14.0000	st	
10400279	Elco 1uF / 63V radiaal R5.0	4.0000	st		10250387	Led 3mm red round	6.0000	st	
10400292	Elco 100uF / 25V radiaal R5.0	50.0000	st		10250388	Led 3mm yellow round	3.0000	st	
10400280	Elco 2.2uF / 50V radiaal R5.0	2.0000	st		10700610	Moer M 3	3.0000	st	
10400290	Elco 220uF / 25V radiaal R5.0	5.0000	st		20851180	Print bestukt Cinemix10c(rout)	1.0000	st	
10250338	Fet J112 (N-channel switch)	4.0000	st		20851182	Print bestukt Cinemix2 (st.ch)	1.0000	st	
10250017	Fet J175 (P-channel switch)	4.0000	st		10550451	Schak Miyama WHI OFF(ON)LEDred	1.0000	st	
10600511	Header 3p Lock straight(R 2.54)	2.0000	st		10700292	Taptit M3X10 verzkop/pozidr/zwt	3.0000	st	
10600512	Header 4P lock straight(R2.54)	7.0000	st		10700787	Taptitte M3x6 bolkoppozidr/zwt	2.0000	st	
10600456	Header haaks 20p (raster 2.54)	1.0000	st		60883315 Cinemix Stems module				
10600140	Header haaks 34p (raster 2.54)	3.0000	st		Articlecode	Description	Quantity	Unit	
10600141	Header haaks 64p (raster 2.54)	2.0000	st		10950470	Batterij 3V (lithium knoopcel)	1.0000	st	
10600478	Header recht 4p (raster 2.54)	8.0000	st		10950471	Batterij houder knoopcel	1.0000	st	
10600435	Header recht 10p nobox(R 2.54)	5.0000	st		10400213	Condensator ker 10p R2.5	118.0000	st	
10600438	Header recht 16p nobox(R 2.54)	2.0000	st		10400217	Condensator ker 22p R2.5	2.0000	st	
10250004	Ic 4053B (HCF4053 BEY)switch	22.0000	st		10400221	Condensator ker 47p R2.5	24.0000	st	
10250005	Ic 4093B (srand)	1.0000	st		10401241	Condensator ker 100nF/50V R5 T	246.0000	st	
10250094	Ic 4094 (8bit serial shiftreg)	6.0000	st		10401268	Condensator poly 1uF R5.0	1.0000	st	
10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st		10401258	Condensator poly 47n R5.0	4.0000	st	
10250307	Ic NE-5532 AP TI (dual-opamp)	6.0000	st		10401261	Condensator poly 100n R5.0	4.0000	st	
10250306	Ic NE-5534 AP TI(single-opamp)	1.0000	st		10600516	Connector 16p (single row 16p)	10.0000	st	
10250032	Ic THAT 2180-LB VCA	4.0000	st		10250342	Diode 1N4148(signaal)	92.0000	st	
10250304	Ic TL-072 CP TI (dual-opamp)	10.0000	st		10400284	Elco 10uF / 40V radiaal R5.0	2.0000	st	
10250305	Ic TL-074 CN TI (quad-opamp)	4.0000	st		10400292	Elco 100uF / 25V radiaal R5.0	152.0000	st	
10600394	Ic-voet 8 pins (vork-contact)	17.0000	st		10400290	Elco 220uF / 25V radiaal R5.0	4.0000	st	
10600402	Ic-voet 8 pins SIL 2.54mm	4.0000	st		10250270	Fet BST76a /BS107 (Nch switch)	1.0000	st	
10600395	Ic-voet 14 pins (vork-contact)	5.0000	st		10250017	Fet J175 (P-channel switch)	1.0000	st	
10600396	Ic-voet 16 pins (vork-contact)	28.0000	st		10600517	Header 16p (single row 16p)	10.0000	st	
10300408	Potm.97 100KBx2 CC	8.0000	st		10600508	Header 20P box angled (R 2.54)	4.0000	st	
10300403	Potm.97 10KBx2 CC	2.0000	st		10600514	Header haaks 5p lock (R 2.54)	8.0000	st	
10300407	Potm.97 10KBx2/10KBx2	2.0000	st		10600140	Header haaks 34p (raster 2.54)	3.0000	st	
10300404	Potm.97 50KA/50KA	4.0000	st		10600141	Header haaks 64p (raster 2.54)	2.0000	st	
10201180	Print Cinemix 10c (routing)	1.0000	st		10600478	Header recht 4p (raster 2.54)	7.0000	st	
10201182	Print Cinemix 2A (st.chan.)	1.0000	st		10600513	Header recht 5p lock (R 2.54)	3.0000	st	
10550205	Schakelaar Alps 2p mini MOMENT	4.0000	st		10600435	Header recht 10p nobox(R 2.54)	2.0000	st	
10550414	Schakelaar Alps 2pole mini NS	2.0000	st		10600520	Header recht 16p box (R 2.54)	3.0000	st	
10550415	Schakelaar Alps 4pole mini NS	10.0000	st		10600438	Header recht 16p nobox(R 2.54)	1.0000	st	
10600414	Shunt 2p (mini-jumper)	10.0000	st		10600142	Header recht 34p (raster 2.54)	15.0000	st	
10250332	Transistor BC-337/25 tape(npn)	2.0000	st		10250026	Ic 27C512-10 EPROM 64K 100ns	1.0000	st	
10350517	Weerstand 0E 5% 1/4W	1.0000	st		10250025	Ic 4051B (8 chann multiplexer)	24.0000	st	
10350701	Weerstand 1E0 5% 1/4W	1.0000	st		10250004	Ic 4053B (HCF4053 BEY)switch	30.0000	st	
10350729	Weerstand 1k0 5% 1/4W	4.0000	st		10250094	Ic 4094 (8bit serial shiftreg)	53.0000	st	
10350827	Weerstand 1k10 1% 1/4W	2.0000	st		10250039	Ic 62C256 (8 bit 32k ram)	1.0000	st	
10350832	Weerstand 1k37 1% 1/4W	2.0000	st		10250048	Ic 74HC138 3to8 line decoder	4.0000	st	
10350731	Weerstand 1k5 5% 1/4W	8.0000	st		10250035	Ic 74HC14 (hex inv.schmitttrig)	1.0000	st	
10350732	Weerstand 1k8 5% 1/4W	16.0000	st		10250033	Ic 74HC573 (octal-D latch)	1.0000	st	
10350703	Weerstand 2E2 5% 1/4W	6.0000	st		10250291	Ic 7805 TO220 SGS (volt.reg)	4.0000	st	
10350733	Weerstand 2k2 5% 1/4W	4.0000	st		10250036	Ic 80C552 (8-bit micro-comptr)	1.0000	st	
10350735	Weerstand 3k3 5% 1/4W	4.0000	st		10250307	Ic NE-5532 AP TI (dual-opamp)	18.0000	st	
10350736	Weerstand 3k9 5% 1/4W	8.0000	st		10250032	Ic THAT 2180-LB VCA	24.0000	st	
10350737	Weerstand 4k7 5% 1/4W	8.0000	st		10250304	Ic TL-072 CP TI (dual-opamp)	8.0000	st	
10350739	Weerstand 6k8 5% 1/4W	8.0000	st		10250305	Ic TL-074 CN TI (quad-opamp)	12.0000	st	
10350776	Weerstand 10M0 5% 1/4W	8.0000	st		10600394	Ic-voet 8 pins (vork-contact)	26.0000	st	
10350741	Weerstand 10k 5% 1/4W	34.0000	st		10600402	Ic-voet 8 pins SIL 2.54mm	24.0000	st	
10350848	Weerstand 10k0 1% 1/4W	90.0000	st		10600395	Ic-voet 14 pins (vork-contact)	13.0000	st	
10350850	Weerstand 11k0 1% 1/4W	2.0000	st		10600396	Ic-voet 16 pins (vork-contact)	111.0000	st	
10350743	Weerstand 15k 5% 1/4W	8.0000	st		10600398	Ic-voet 20 pins (vork-contact)	1.0000	st	
10350856	Weerstand 20k0 1% 1/4W	12.0000	st		10600401	Ic-voet 28 pins (vork-contact)	2.0000	st	
10350713	Weerstand 47E 5% 1/4W	2.0000	st		10600403	Ic-voet 68 pins (PLCC Socket)	1.0000	st	
10350749	Weerstand 47k 5% 1/4W	34.0000	st		10300200	Instelpot 25-turn 20k H T93YB	4.0000	st	
10350714	Weerstand 56E 5% 1/4W	2.0000	st		10300205	Instelpot 25-turn 20k T93XB	52.0000	st	
10350717	Weerstand 100E 5% 1/4W	4.0000	st		10720663	Koelprof KL-207/38,1/SW 207180	1.0000	st	
10350753	Weerstand 100K 5% 1/4W	20.0000	st		10250306	Kristal 12.0000 MHz	1.0000	st	
10350725	Weerstand 470E 5% 1/4W	10.0000	st		10300403	Potm.97 10KBx2 CC	4.0000	st	
10350761	Weerstand 470k 5% 1/4W	2.0000	st		10201205	Print Matrix 1A	4.0000	st	
10350726	Weerstand 560E 5% 1/4W	10.0000	st		10201206	Print Matrix 2A	4.0000	st	
10350763	Weerstand 680k 5% 1/4W	2.0000	st		10201207	Print Matrix 3P	1.0000	st	
10250353	Zenerdiode 12V0 / 1W	1.0000	st		10201208	Print Matrix 4A	1.0000	st	
10250350	Zenerdiode 18V0 / 400mW	2.0000	st		10201209	Print Matrix 5A	2.0000	st	
10700659	Afstandshdr mt zeskant+tap15mm	3.0000	st		10201210	Print Matrix 6P	1.0000	st	
10650159	Bandkabel 34p (R 1.27)	10.0000	cm		10201200	Print Matrix 7P	1.0000	st	
10600169	Conn: 4p wired:1=blk/grn/rd/bl	1.0000	st		10550206	Schakelaar Zippy Led black mom	30.0000	st	
10600132	Connector bandkabel female 34p	2.0000	st						
10450151	Deksel SiFam 11mm Hopsack/117	2.0000	st						
10450153	Deksel SiFam 11mm black/5bulk	2.0000	st						
10450182	Deksel SiFam 11mm blue bulk	2.0000	st						
10450195	Deksel SiFam 11mm gray bulk	5.0000	st						

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883315 Cinemix Stems module			
Articlecode	Description	Quantity	Unit
10550204	Schakelaar Zippy Led gray mom	29.0000	st
10550200	Schakelaar Zippy-led (red) mom	31.0000	st
10700293	Tapitite M2.5x6 bolk/pozidrive	2.0000	st
10250332	Transistor BC-337/25 tape(npn)	2.0000	st
10350517	Weerstand 0E 5% 1/4W	9.0000	st
10350701	Weerstand 1E0 5% 1/4W	7.0000	st
10350729	Weerstand 1k0 5% 1/4W	1.0000	st
10350829	Weerstand 1k07 1% 1/4W	8.0000	st
10350732	Weerstand 1k8 5% 1/4W	2.0000	st
10350703	Weerstand 2E2 5% 1/4W	11.0000	st
10350733	Weerstand 2K2 5% 1/4W	2.0000	st
10350737	Weerstand 4k7 5% 1/4W	4.0000	st
10350739	Weerstand 6k8 5% 1/4W	24.0000	st
10350740	Weerstand 8k2 5% 1/4W	3.0000	st
10350776	Weerstand 10M0 5% 1/4W	1.0000	st
10350741	Weerstand 10k 5% 1/4W	4.0000	st
10350848	Weerstand 10k0 1% 1/4W	243.0000	st
10350853	Weerstand 15k8 1% 1/4W	96.0000	st
10350856	Weerstand 20k0 1% 1/4W	24.0000	st
10350883	Weerstand 44k2 1% 1/4W	8.0000	st
10350713	Weerstand 47E 5% 1/4W	60.0000	st
10350714	Weerstand 56E 5% 1/4W	4.0000	st
10350717	Weerstand 100E 5% 1/4W	13.0000	st
10350753	Weerstand 100K 5% 1/4W	59.0000	st
10350725	Weerstand 470E 5% 1/4W	186.0000	st
10350761	Weerstand 470k 5% 1/4W	4.0000	st
10350031	Weerstand array 8x 10k 5p SIL	1.0000	st
10250353	Zenerdiode 12V0 / 1W	3.0000	st
10250350	Zenerdiode 18V0 / 400mW	2.0000	st
10650448	Bandkabel 20p (R 1.27)	200.0000	cm
10650159	Bandkabel 34p (R 1.27)	300.0000	cm
10600162	Connector 5p(2.54)	8.0000	st
10600466	Connector bandkabel female 16p	2.0000	st
10600470	Connector bandkabel female 20p	10.0000	st
10600132	Connector bandkabel female 34p	16.0000	st
10600113	Connector sub-D bandkb.fem 25p	6.0000	st
10101183	Front Cinemix 3B (matrix)	1.0000	st
10500705	Isolatieplaat midi mute PVC	5.0000	st
10250387	Led 3mm red round	192.0000	st
20851205	Print bestukt Matrix 1	4.0000	st
20851206	Print bestukt Matrix 2	4.0000	st
20851207	Print bestukt Matrix 3	1.0000	st
20851208	Print bestukt Matrix 4	1.0000	st
20851209	Print bestukt Matrix 5	2.0000	st
20851210	Print bestukt Matrix 6	1.0000	st
20851200	Print bestukt Matrix 7	1.0000	st
10700616	Tapitite M3x10 bolkoppozidr/zw.	4.0000	st
10700632	Zeskant tap M3x20mm metaal	14.0000	st

60883330 Cinemix 13 segments ledbar/8st			
Articlecode	Description	Quantity	Unit
10400213	Condensator ker 10p R2.5	8.0000	st
10401241	Condensator ker 100nF/50V R5 T	56.0000	st
10250342	Diode 1N4148(signaal)	32.0000	st
10400287	Elco 47uF / 25V radiaal R5.0	8.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	16.0000	st
10400280	Elco 2.2uF / 50V radiaal R5.0	8.0000	st
10600512	Header 4P lock straight(R2.54)	8.0000	st
10250325	Ic 78L12 TO92 SGS (volt.reg)	8.0000	st
10250316	Ic LM-339(comparator)	24.0000	st
10250304	Ic TL-072 CP TI (dual-opamp)	8.0000	st
10600394	Ic-voet 8 pins (vork-contact)	8.0000	st
10600395	Ic-voet 14 pins (vork-contact)	24.0000	st
10300166	Instelpot 10-turn 22k (T18)	8.0000	st
10201160	Print LB13-1P (13 segm ledbar)	8.0000	st
10250333	Transistor BC-327/25 (pnp)	8.0000	st
10350517	Weerstand 0E 5% 1/4W	40.0000	st
10350829	Weerstand 1k07 1% 1/4W	8.0000	st
10350832	Weerstand 1k37 1% 1/4W	8.0000	st
10350705	Weerstand 10E 5% 1/4W	16.0000	st
10350741	Weerstand 10k 5% 1/4W	8.0000	st
10350749	Weerstand 47k 5% 1/4W	8.0000	st
10350717	Weerstand 100E 5% 1/4W	16.0000	st
10350753	Weerstand 100K 5% 1/4W	16.0000	st
10350806	Weerstand 113E 1% 1/4W	8.0000	st
10350811	Weerstand 162E 1% 1/4W	8.0000	st
10350756	Weerstand 180K 5% 1/4W	8.0000	st
10350812	Weerstand 205E 1% 1/4W	8.0000	st
10350886	Weerstand 243E 1% 1/4W	8.0000	st
10350758	Weerstand 270k 5% 1/4W	8.0000	st
10350818	Weerstand 392E 1% 1/4W	8.0000	st
10350819	Weerstand 432E 1% 1/4W	8.0000	st
10350822	Weerstand 536E 1% 1/4W	8.0000	st
10350823	Weerstand 619E 1% 1/4W	8.0000	st
10350824	Weerstand 681E 1% 1/4W	8.0000	st
10350826	Weerstand 866E 1% 1/4W	8.0000	st
10250340	Zenerdiode 2V4 / 400mW	8.0000	st

10600167	Conn. assembly 4p-52cm tube	10.0000	st
10700975	Dubbelzijdig plakband 12mm dun	80.0000	cm
10101187	Front Cinemix 7A (ledbar 8x)	1.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	160.0000	cm
10250386	Led 3mm green round	80.0000	st
10250387	Led 3mm red round	24.0000	st
10700690	Platstaf 25 x 10 x 10mm	16.0000	st
10700611	Popnagel 3.0 x 6.5 blank	32.0000	st
20851160	Print bestukt LB13-1 13 segm.	8.0000	st
10700790	Tapitite M3x6 verzkop/pozidr/zw	16.0000	st

60883332 Cinemix 13 segm. ledbar /10st.

Articlecode	Description	Quantity	Unit
10400213	Condensator ker 10p R2.5	10.0000	st
10401241	Condensator ker 100nF/50V R5 T	70.0000	st
10250342	Diode 1N4148(signaal)	40.0000	st
10400287	Elco 47uF / 25V radiaal R5.0	10.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	20.0000	st
10400280	Elco 2.2uF / 50V radiaal R5.0	10.0000	st
10600512	Header 4P lock straight(R2.54)	10.0000	st
10250325	Ic 78L12 TO92 SGS (volt.reg)	10.0000	st
10250316	Ic LM-339(comparator)	30.0000	st
10250304	Ic TL-072 CP TI (dual-opamp)	10.0000	st
10600394	Ic-voet 8 pins (vork-contact)	10.0000	st
10600395	Ic-voet 14 pins (vork-contact)	30.0000	st
10300166	Instelpot 10-turn 22k (T18)	10.0000	st
10201160	Print LB13-1P (13 segm ledbar)	10.0000	st
10250333	Transistor BC-327/25 (pnp)	10.0000	st
10350517	Weerstand 0E 5% 1/4W	50.0000	st
10350829	Weerstand 1k07 1% 1/4W	10.0000	st
10350832	Weerstand 1k37 1% 1/4W	10.0000	st
10350705	Weerstand 10E 5% 1/4W	20.0000	st
10350741	Weerstand 10k 5% 1/4W	10.0000	st
10350749	Weerstand 47k 5% 1/4W	10.0000	st
10350717	Weerstand 100E 5% 1/4W	20.0000	st
10350753	Weerstand 100K 5% 1/4W	20.0000	st
10350806	Weerstand 113E 1% 1/4W	10.0000	st
10350811	Weerstand 162E 1% 1/4W	10.0000	st
10350756	Weerstand 180K 5% 1/4W	10.0000	st
10350812	Weerstand 205E 1% 1/4W	10.0000	st
10350886	Weerstand 243E 1% 1/4W	10.0000	st
10350758	Weerstand 270k 5% 1/4W	10.0000	st
10350818	Weerstand 392E 1% 1/4W	10.0000	st
10350819	Weerstand 432E 1% 1/4W	10.0000	st
10350822	Weerstand 536E 1% 1/4W	10.0000	st
10350823	Weerstand 619E 1% 1/4W	10.0000	st
10350824	Weerstand 681E 1% 1/4W	10.0000	st
10350826	Weerstand 866E 1% 1/4W	10.0000	st
10250340	Zenerdiode 2V4 / 400mW	10.0000	st
10600167	Conn. assembly 4p-52cm tube	10.0000	st
10700975	Dubbelzijdig plakband 12mm dun	100.0000	cm
10101188	Front Cinemix 8A (st ledbar)	1.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	200.0000	cm
10250386	Led 3mm green round	100.0000	st
10250387	Led 3mm red round	30.0000	st
10700690	Platstaf 25 x 10 x 10mm	20.0000	st
10700611	Popnagel 3.0 x 6.5 blank	40.0000	st
20851160	Print bestukt LB13-1 13 segm.	10.0000	st
10700790	Tapitite M3x6 verzkop/pozidr/zw	20.0000	st

60883340 Cinemix patchpanel (basis)

Articlecode	Description	Quantity	Unit
10600041	Connector sub-D25 female pcb	32.0000	st
10600512	Header 4P lock straight(R2.54)	33.0000	st
10600150	Header haaks 1p opsteekkontkt	15.0000	st
10600140	Header haaks 34p (raster 2.54)	30.0000	st
10600801	Jack Bantam black chassis	186.0000	st
10600800	Jack Bantam blue chassis	190.0000	st
10200742	Print Marlonpat- 3a(tieline)	32.0000	st
10201111	Print Merlin 11A (patchpanel)	9.0000	st
10201112	Print Merlin 12p (patchpanel)	1.0000	st
10201113	Print Merlin 13p (patchpanel)	5.0000	st
10600414	Shunt 2p (mini-jumper)	60.0000	st
10101193	Achterpl. Cinemix 13A (patchp)	1.0000	st
10650449	Bandkabel 25p (R 1.27)	3200.0000	cm
10650159	Bandkabel 34p (R 1.27)	1620.0000	cm
10600132	Connector bandkabel female 34p	42.0000	st
10600113	Connector sub-D bandkb.fem 25p	42.0000	st
10600112	Connector sub-D bandkb.mal 25p	32.0000	st
10101186	Front Cinemix 6A (patchpanel)	1.0000	st
10101094	Front Merlin 14a 14pospatchlba	1.0000	st
10500705	Isolatieplaat midi mute PVC	1.0000	st
10600010	Kabelschoen vlak 4.8mm rood	96.0000	st

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883340 Cinemix patchpanel (basis)									
Articlecode	Description	Quantity	Unit						
10650372	Montagedraad 0.4 mm2 (zwart)	1500.0000	cm		10201193	Print Cinemix 31A (backp2)	1.0000	st	
10700690	Platstaf 25 x 10 x 10mm	21.0000	st		10201194	Print Cinemix 32C (backp3)	1.0000	st	
10700636	Platstaf 60 x 10 x 10mm	73.0000	st		10201189	Print Cinemix 9B (backp1)	1.0000	st	
10700611	Popnagel 3.0 x 6.5 blank	192.0000	st		10201197	Print MUX-Amp1C (autom.)	5.0000	st	
20850172	Print bestukt Marilonpat-3 b/z	32.0000	st		10250333	Transistor BC-327/25 (pnp)	2.0000	st	
20851111	Print bestukt Merlin 11(patch)	9.0000	st		10350517	Weerstand 0E 5% 1/4W	35.0000	st	
20851112	Print bestukt Merlin 12(patch)	1.0000	st		10350765	Weerstand 1M0 5% 1/4W	6.0000	st	
20851113	Print bestukt Merlin 13(patch)	5.0000	st		10350729	Weerstand 1k0 5% 1/4W	2.0000	st	
10700787	Tapitite M3x6 bolkoppozidr/zwr	84.0000	st		10350703	Weerstand 2E2 5% 1/4W	23.0000	st	
10700790	Tapitite M3x6 verzkop/pozidr/zw	212.0000	st		10350733	Weerstand 2k2 5% 1/4W	2.0000	st	
10700681	Tywrap kort 94 mm blank	30.0000	st		10350842	Weerstand 3k01 1% 1/4W	4.0000	st	
10700680	Tywrap lang 150mm blank	50.0000	st		10350735	Weerstand 3k3 5% 1/4W	4.0000	st	
60883346 Cinemix 4x row patchbay module					10350736	Weerstand 3k9 5% 1/4W	4.0000	st	
Articlecode	Description	Quantity	Unit		10350737	Weerstand 4k7 5% 1/4W	2.0000	st	
10600041	Connector sub-D25 female pcb	8.0000	st		10350738	Weerstand 5k6 5% 1/4W	2.0000	st	
10600150	Header haaks 1p opsteekkontkt	4.0000	st		10350741	Weerstand 10k 5% 1/4W	4.0000	st	
10600140	Header haaks 34p (raster 2.54)	4.0000	st		10350848	Weerstand 10k0 1% 1/4W	14.0000	st	
10600478	Header recht 4p (raster 2.54)	32.0000	st		10350742	Weerstand 12k 5% 1/4W	2.0000	st	
10600438	Header recht 16p nobox(R 2.54)	12.0000	st		10350744	Weerstand 18k 5% 1/4W	8.0000	st	
10600801	Jack Bantam black chassis	20.0000	st		10350745	Weerstand 22k 5% 1/4W	2.0000	st	
10600800	Jack Bantam blue chassis	16.0000	st		10350860	Weerstand 27k4 1% 1/4W	2.0000	st	
10200720	Print Merlin-pp1c (channelp)	4.0000	st		10350713	Weerstand 47E 5% 1/4W	48.0000	st	
10600414	Shunt 2p (mini-jumper)	24.0000	st		10350754	Weerstand 120K 5% 1/4W	2.0000	st	
10650449	Bandkabel 25p (R 1.27)	200.0000	cm		10350756	Weerstand 180K 5% 1/4W	2.0000	st	
10650159	Bandkabel 34p (R 1.27)	1208.0000	cm		10350721	Weerstand 220E 5% 1/4W	12.0000	st	
10600132	Connector bandkabel female 34p	8.0000	st		10350725	Weerstand 470E 5% 1/4W	32.0000	st	
10600113	Connector sub-D bandkb.fem 25p	3.0000	st		10350761	Weerstand 470k 5% 1/4W	6.0000	st	
10600112	Connector sub-D bandkb.mal 25p	8.0000	st		10350726	Weerstand 560E 5% 1/4W	4.0000	st	
10700690	Platstaf 25 x 10 x 10mm	8.0000	st		10600234	XLR chass mal 3p mt.bl ver p	4.0000	st	
10700611	Popnagel 3.0 x 6.5 blank	16.0000	st		10250340	Zenerdiode 2V4 / 400mW	2.0000	st	
20850620	Print bestukt Avalon-pp1(chan)	4.0000	st		10100474	Achterpl. Axion/Merlin15 1pos	6.0000	st	
60883375 Cinemix frame 32 (61 pos.)					10101194	Achterpl. Cinemix 14B (master)	1.0000	st	
Articlecode	Description	Quantity	Unit		10101093	Achterplaat Merlin13/c bl.8pos	4.0000	st	
10400216	Condensator ker 18p R2.5	8.0000	st		10700659	Afstandshdr mt zeskant+tap15mm	4.0000	st	
10400217	Condensator ker 22p R2.5	6.0000	st		10650448	Bandkabel 20p (R 1.27)	925.0000	cm	
10400225	Condensator ker 100p R2.5	2.0000	st		10650159	Bandkabel 34p (R 1.27)	280.0000	cm	
10400229	Condensator ker 220p R2.5	2.0000	st		10650451	Bandkabel 64p (R 1.27)	1800.0000	cm	
10400232	Condensator ker 470p R2.5	2.0000	st		10700290	Bout M 6 x 45 fretbout blank	24.0000	st	
10401241	Condensator ker 100nF/50V R5 T	172.0000	st		10700689	Bout M 8 x 20 tapbout zwart	8.0000	st	
10401253	Condensator poly 10n R5.0	80.0000	st		10700911	Bout M10 x 20 blank	8.0000	st	
10600114	Connector chassis DIN fem 5p	3.0000	st		10600470	Connector bandkabel female 20p	64.0000	st	
10600041	Connector sub-D25 female pcb	6.0000	st		10600132	Connector bandkabel female 34p	7.0000	st	
10250342	Diode 1N4148(signaal)	16.0000	st		10600133	Connector bandkabel female 64p	90.0000	st	
10400284	Elco 10uF / 40V radiaal R5.0	4.0000	st		10600527	Connector chass speakon 8p.zw.	1.0000	st	
10400292	Elco 100uF / 25V radiaal R5.0	18.0000	st		10600482	Connector instrumentklem zwart	1.0000	st	
10400290	Elco 220uF / 25V radiaal R5.0	11.0000	st		10600526	Connector plug speakon 4p.zw.	1.0000	st	
10600452	Header 10p haaks (raster 2.54)	1.0000	st		10700002	Druknael wit (nylon)	7.0000	st	
10600509	Header 20P Straight	40.0000	st		10700975	Dubbelzijdig plakband 12mm dun	427.0000	cm	
10600512	Header 4P lock straight(R2.54)	6.0000	st		10100440	Front Cinemix 17a ledblind	1.0000	st	
10600456	Header haaks 20p (raster 2.54)	1.0000	st		10101184	Front Cinemix 4A (blind)	1.0000	st	
10600140	Header haaks 34p (raster 2.54)	11.0000	st		10101095	Front Merlin 15b (afscherming)	1.0000	st	
10600141	Header haaks 64p (raster 2.54)	4.0000	st		10500705	Isolatieplaat midi mute PVC	4.5000	st	
10600478	Header recht 4p (raster 2.54)	18.0000	st		10600006	Kabelschoen + boutgat M4 blauw	4.0000	st	
10600435	Header recht 10p nobox(R 2.54)	2.0000	st		10600012	Kabelschoen rondstift blauw	6.0000	st	
10600142	Header recht 34p (raster 2.54)	4.0000	st		10600013	Kabelschoen stifthouder blauw	10.0000	st	
10250026	Ic 27C512-10 EPROM 64K 100ns	2.0000	st		10700422	Kartelring M 4 (buitenvertan)	2.0000	st	
10250040	Ic 40106B (hex schmitt trig)	2.0000	st		10700913	Kartelring M 8 (buitenvertan)	8.0000	st	
10250025	Ic 4051B (8 chann multiplexer)	45.0000	st		10150081	Kast Cinemix 32/D (61pos)	1.0000	st	
10250094	Ic 4094 (8bit serial shiftreg)	5.0000	st		10500682	Krimpkaus 6 mm (rond)	16.0000	cm	
10250014	Ic 4N27(opto-coupler)	2.0000	st		10700007	Magneetstrip 8.5mm x 3mm	427.0000	cm	
10250039	Ic 62C256 (8 bit 32k ram)	2.0000	st		10700610	Moer M 3	4.0000	st	
10250012	Ic 74HC125 (quad bistab. buf)	10.0000	st		10700686	Moer M 8	8.0000	st	
10250048	Ic 74HC138 3to8 line decoder	20.0000	st		10700612	Moer M 10	8.0000	st	
10250035	Ic 74HC14 (hex inv.schmitttrig)	2.0000	st		10650490	Montagedraad 2.5 mm2 (blauw)	180.0000	cm	
10250033	Ic 74HC573 (octal-D latch)	2.0000	st		10650101	Montagedraad 2.5 mm2 (geel)	275.0000	cm	
10250291	Ic 7805 TO220 SGS (volt.reg)	7.0000	st		10650103	Montagedraad 2.5 mm2 (grijs)	240.0000	cm	
10250036	Ic 80C552 (8-bit micro-comptr)	2.0000	st		10650102	Montagedraad 2.5 mm2 (groen)	70.0000	cm	
10250068	Ic CA3046 (transistor array)	2.0000	st		10650106	Montagedraad 2.5 mm2 (oranje)	275.0000	cm	
10250069	Ic DAC832 (8 bits DAC)	2.0000	st		10650107	Montagedraad 2.5 mm2 (paars)	60.0000	cm	
10250304	Ic TL-072 CP TI (dual-opamp)	6.0000	st		10650100	Montagedraad 2.5 mm2 (rood)	240.0000	cm	
10250305	Ic TL-074 CN TI (quad-opamp)	22.0000	st		10650104	Montagedraad 2.5 mm2 (zwart)	720.0000	cm	
10600394	Ic-voet 8 pins (vork-contact)	6.0000	st		10650105	Montagedraad 2.5 mm2 geel/grn	50.0000	cm	
10600395	Ic-voet 14 pins (vork-contact)	38.0000	st		10700690	Platstaf 25 x 10 x 10mm	6.0000	st	
10600396	Ic-voet 16 pins (vork-contact)	70.0000	st		10101195	Plexiglas Cinemix 32 (61 pos)	1.0000	st	
10600398	Ic-voet 20 pins (vork-contact)	4.0000	st		10700611	Popnagel 3.0 x 6.5 blank	12.0000	st	
10600401	Ic-voet 28 pins (vork-contact)	4.0000	st		20851196	Print bestukt CPUamp1 (autom.)	2.0000	st	
10600403	Ic-voet 68 pins (PLCC Socket)	2.0000	st		20851192	Print bestukt Cinemix20(pwrco)	2.0000	st	
10300202	Instelpot 22-turn 2k H T93YB	2.0000	st		20851193	Print bestukt Cinemix31(back2)	1.0000	st	
10300200	Instelpot 25-turn 20k H T93YB	6.0000	st		20851194	Print bestukt Cinemix32(back3)	1.0000	st	
10250396	Kristal 12.0000 MHz	2.0000	st		20851189	Print bestukt Cinemix9 (back1)	1.0000	st	
10250387	Led 3mm red round	4.0000	st		20851197	Print bestukt MUXamp1 (autom.)	5.0000	st	
10201196	Print CPU-Amp1c (autom.)	2.0000	st		10700626	Ring M 10 potmeter blank	8.0000	st	
10201192	Print Cinemix 20A (power con)	2.0000	st		10700009	Rubber neopreenband 30 x 2 mm	100.0000	cm	
					10100682	Schrijfstrook 2800x28x3mm 62st	214.0000	cm	
					10700700	Schroef spaanplaat 4.5 x 30	2.0000	st	
					10700787	Tapitite M3x6 bolkoppozidr/zwr	358.0000	st	
					10700790	Tapitite M3x6 verzkop/pozidr/zw	14.0000	st	

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60883375 Cinemix frame 32 (61 pos.)									
Articlecode	Description	Quantity	Unit						
10700788	Taptite M3x8 verzkop/pozidr/zw	6.0000	st		10600234	XLR chass mal 3p mt.bl ver p	4.0000	st	
10700680	Tywrap lang 150mm blank	20.0000	st		10250340	Zenerdiode 2V4 / 400mW	2.0000	st	
10700675	Tywrap plakzadel ---- 28x28 mm	6.0000	st		10100474	Achterpl. Axion/Merlin15 1pos	6.0000	st	
10750052	Voorbalk Cinemix 61 32ch.	1.0000	st		10101194	Achterpl. Cinemix 14B (master)	1.0000	st	
10700704	Zeskant tap M3x10mm metaal	28.0000	st		10101093	Achterplaat Merlin13/c bl.8pos	6.0000	st	
10750072	Zijkant Cinemix A versie (L+R)	1.0000	s01		10700659	Afstandshdr mt zeskant+tap15mm	4.0000	st	
60883376 Cinemix frame 48 (77 pos.)					10650448	Bandkabel 20p (R 1.27)	1325.0000	cm	
Articlecode	Description	Quantity	Unit		10650159	Bandkabel 34p (R 1.27)	420.0000	cm	
10400216	Condensator ker 18p R2.5	8.0000	st		10650451	Bandkabel 64p (R 1.27)	2700.0000	cm	
10400217	Condensator ker 22p R2.5	6.0000	st		10700290	Bout M 6 x 45 fretbout blank	24.0000	st	
10400225	Condensator ker 100p R2.5	2.0000	st		10700689	Bout M 8 x 20 tapbout zwart	8.0000	st	
10400229	Condensator ker 220p R2.5	2.0000	st		10700911	Bout M10 x 20 blank	8.0000	st	
10400232	Condensator ker 470p R2.5	2.0000	st		10600470	Connector bandkabel female 20p	106.0000	st	
10401241	Condensator ker 100nF/50V R5 T	224.0000	st		10600132	Connector bandkabel female 34p	9.0000	st	
10401253	Condensator poly 10n R5.0	112.0000	st		10600133	Connector bandkabel female 64p	122.0000	st	
10600114	Connector chassis DIN fem 5p	3.0000	st		10600527	Connector chass speakon 8p.zw.	1.0000	st	
10600041	Connector sub-D25 female pcb	6.0000	st		10600482	Connector instrumentkleim zwart	1.0000	st	
10250342	Diode 1N4148(signaal)	16.0000	st		10700002	Druknagel wit (nylon)	9.0000	st	
10400284	Elco 10uF / 40V radiaal R5.0	4.0000	st		10700975	Dubbelzijdig plakband 12mm dun	539.0000	cm	
10400292	Elco 100uF / 25V radiaal R5.0	22.0000	st		10100440	Front Cinemix 17a ledblind	1.0000	st	
10400290	Elco 220uF / 25V radiaal R5.0	13.0000	st		10101184	Front Cinemix 4A (blind)	1.0000	st	
10600452	Header 10p haaks (raster 2.54)	1.0000	st		10500705	Isolatieplaat midi mute PVC	5.5000	st	
10600509	Header 20P Straight	56.0000	st		10600006	Kabelschoen + boutgat M4 blauw	4.0000	st	
10600512	Header 4P lock straight(R2.54)	6.0000	st		10600012	Kabelschoen rondstift blauw	6.0000	st	
10600456	Header haaks 20p (raster 2.54)	1.0000	st		10600013	Kabelschoen stifthouder blauw	10.0000	st	
10600140	Header haaks 34p (raster 2.54)	13.0000	st		10700422	Kartelring M 4 (buitenvertan)	2.0000	st	
10600141	Header haaks 64p (raster 2.54)	6.0000	st		10700913	Kartelring M 8 (buitenvertan)	8.0000	st	
10600478	Header recht 4p (raster 2.54)	22.0000	st		10150082	Kast Cinemix 48/B (77pos)	1.0000	st	
10600435	Header recht 10p nobox(R 2.54)	2.0000	st		10500682	Krimpkous 6 mm (rond)	16.0000	cm	
10600142	Header recht 34p (raster 2.54)	4.0000	st		10700007	Magneetstrip 8.5mm x 3mm	539.0000	cm	
10250026	Ic 27C512-10 EPROM 64K 100ns	2.0000	st		10700610	Moer M 3	4.0000	st	
10250040	Ic 40106B (hex schmitt trig)	2.0000	st		10700686	Moer M 8	8.0000	st	
10250025	Ic 4051B (8 chann multiplexer)	63.0000	st		10700612	Moer M 10	8.0000	st	
10250094	Ic 4094 (8bit serial shiftrg)	7.0000	st		10650490	Montagedraad 2.5 mm2 (blauw)	345.0000	cm	
10250014	Ic 4N27(opto-coupler)	2.0000	st		10650101	Montagedraad 2.5 mm2 (geel)	440.0000	cm	
10250039	Ic 62C256 (8 bit 32k ram)	2.0000	st		10650103	Montagedraad 2.5 mm2 (grijs)	405.0000	cm	
10250012	Ic 74HC125 (quad bistab. buf)	14.0000	st		10650102	Montagedraad 2.5 mm2 (groen)	70.0000	cm	
10250048	Ic 74HC138 3to8 line decoder	28.0000	st		10650106	Montagedraad 2.5 mm2 (oranje)	440.0000	cm	
10250035	Ic 74HC14 (hex inv.schmitttrig)	2.0000	st		10650107	Montagedraad 2.5 mm2 (paars)	60.0000	cm	
10250033	Ic 74HC573 (octal-D latch)	2.0000	st		10650100	Montagedraad 2.5 mm2 (rood)	405.0000	cm	
10250291	Ic 7805 TO220 SGS (volt.reg)	9.0000	st		10650104	Montagedraad 2.5 mm2 (zwart)	1035.0000	cm	
10250036	Ic 80C552 (8-bit micro-comptr)	2.0000	st		10650105	Montagedraad 2.5 mm2 geel/grn	50.0000	cm	
10250068	Ic CA3046 (transistor array)	2.0000	st		10700690	Platstaf 25 x 10 x 10mm	6.0000	st	
10250069	Ic DAC832 (8 bits DAC)	2.0000	st		10101198	Plexiglas Cinemix 48 (77pos)	1.0000	st	
10250304	Ic TL-072 CP TI (dual-opamp)	6.0000	st		10700611	Popnagel 3.0 x 6.5 blank	12.0000	st	
10250305	Ic TL-074 CN TI (quad-opamp)	30.0000	st		20851196	Print bestukt CPUamp1 (autom.)	2.0000	st	
10600394	Ic-voet 8 pins (vork-contact)	6.0000	st		20851192	Print bestukt Cinemix20(pwrco)	3.0000	st	
10600395	Ic-voet 14 pins (vork-contact)	50.0000	st		20851193	Print bestukt Cinemix31(back2)	1.0000	st	
10600396	Ic-voet 16 pins (vork-contact)	98.0000	st		20851194	Print bestukt Cinemix32(back3)	1.0000	st	
10600398	Ic-voet 20 pins (vork-contact)	4.0000	st		20851189	Print bestukt Cinemix9 (back1)	1.0000	st	
10600401	Ic-voet 28 pins (vork-contact)	4.0000	st		20851197	Print bestukt MUXamp1 (autom.)	7.0000	st	
10600403	Ic-voet 68 pins (PLCC Socket)	2.0000	st		10700626	Ring M 10 potmeter blank	8.0000	st	
10300202	Instelpot 22-turn 2K H T93YB	2.0000	st		10700009	Rubber neopreenband 30 x 2 mm	100.0000	cm	
10300200	Instelpot 25-turn 20k H T93YB	6.0000	st		10100682	Schrijfstrook 2800x28x3mm 62st	270.0000	cm	
10250396	Kristal 12.0000 MHz	2.0000	st		10700700	Schroef spaanplaat 4.5 x 30	2.0000	st	
10250387	Led 3mm red round	4.0000	st		10700787	Taptite M3x6 bolkoppozidr/zwrt	446.0000	st	
10201196	Print CPU-Amp1c (autom.)	2.0000	st		10700790	Taptite M3x6 verzkop/pozidr/zw	14.0000	st	
10201192	Print Cinemix 20A (power con)	3.0000	st		10700788	Taptite M3x8 verzkop/pozidr/zw	6.0000	st	
10201193	Print Cinemix 31A (backp2)	1.0000	st		10700680	Tywrap lang 150mm blank	30.0000	st	
10201194	Print Cinemix 32C (backp3)	1.0000	st		10700675	Tywrap plakzadel ---- 28x28 mm	10.0000	st	
10201189	Print Cinemix 9B (backp1)	1.0000	st		10750053	Voorbalk Cinemix 77 40ch.	1.0000	st	
10201197	Print MUX-Amp1C (autom.)	7.0000	st		10700704	Zeskant tap M3x10mm metaal	36.0000	st	
10250333	Transistor BC-327/25 (pnp)	2.0000	st		10750072	Zijkant Cinemix A versie (L+R)	1.0000	s01	
10350517	Weerstand 0E 5% 1/4W	37.0000	st		60888835 Music quest SMPTE card+Software				
10350765	Weerstand 1M0 5% 1/4W	6.0000	st		Articlecode	Description	Quantity	Unit	
10350729	Weerstand 1k0 5% 1/4W	2.0000	st		10840035	Music Quest MQX-32M	1.0000	st	
10350703	Weerstand 2E2 5% 1/4W	29.0000	st		10840036	PowerVCA software	1.0000	st	
10350733	Weerstand 2k2 5% 1/4W	2.0000	st		60888847 Dynamics per 8 signalen				
10350842	Weerstand 3k01 1% 1/4W	4.0000	st		Articlecode	Description	Quantity	Unit	
10350735	Weerstand 3k3 5% 1/4W	4.0000	st		10400216	Condensator ker 18p R2.5	1.0000	st	
10350736	Weerstand 3k9 5% 1/4W	4.0000	st		10400217	Condensator ker 22p R2.5	2.0000	st	
10350737	Weerstand 4k7 5% 1/4W	2.0000	st		10400219	Condensator ker 33p R2.5	8.0000	st	
10350738	Weerstand 5k6 5% 1/4W	2.0000	st		10401241	Condensator ker 100nF/50V R5 T	43.0000	st	
10350741	Weerstand 10k 5% 1/4W	4.0000	st		10401253	Condensator poly 10n R5.0	32.0000	st	
10350848	Weerstand 10k0 1% 1/4W	14.0000	st		10401258	Condensator poly 47n R5.0	8.0000	st	
10350742	Weerstand 12k 5% 1/4W	2.0000	st		10401261	Condensator poly 100n R5.0	17.0000	st	
10350744	Weerstand 18k 5% 1/4W	8.0000	st		10250342	Diode 1N4148 (signaal)	24.0000	st	
10350745	Weerstand 22k 5% 1/4W	2.0000	st		10400284	Elco 10uF / 40V radiaal R5.0	2.0000	st	
10350860	Weerstand 27k4 1% 1/4W	2.0000	st		10400287	Elco 47uF / 25V radiaal R5.0	8.0000	st	
10350713	Weerstand 47E 5% 1/4W	48.0000	st		10400292	Elco 100uF / 25V radiaal R5.0	13.0000	st	
10350754	Weerstand 120K 5% 1/4W	2.0000	st						
10350756	Weerstand 180K 5% 1/4W	2.0000	st						
10350721	Weerstand 220E 5% 1/4W	12.0000	st						
10350725	Weerstand 470E 5% 1/4W	40.0000	st						
10350761	Weerstand 470k 5% 1/4W	6.0000	st						
10350726	Weerstand 560E 5% 1/4W	4.0000	st						

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60888847 Dynamics per 8 signalen

Articlecode	Description	Quantity	Unit
10250270	Fet BST76a /BS107 (Nch switch)	2.0000	st
10600510	Header 2p Lock straight(R 2.54)	8.0000	st
10600511	Header 3p Lock straight(R 2.54)	1.0000	st
10600512	Header 4P lock straight(R2.54)	8.0000	st
10600140	Header haaks 34p (raster 2.54)	1.0000	st
10600435	Header recht 10p nobox(R 2.54)	1.0000	st
10250026	Ic 27C512-10 EPROM 64K 100ns	1.0000	st
10250025	Ic 4051B (8 chann multiplexer)	2.0000	st
10250039	Ic 62C256 (8 bit 32k ram)	1.0000	st
10250031	Ic 74HC148 (8/3 encoder)	1.0000	st
10250046	Ic 74HC259 8 bit adr latch	1.0000	st
10250033	Ic 74HC573 (octal-D latch)	1.0000	st
10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st
10250036	Ic 80C552 (8-bit micro-comptr)	1.0000	st
10250069	Ic DAC832 (8 bits DAC)	1.0000	st
10250316	Ic LM-339 (comparator)	2.0000	st
10250043	Ic THAT 4301 (VCA,RMS,3xopamp)	8.0000	st
10250304	Ic TL-072 CP TI (dual-opamp)	1.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	4.0000	st
10600394	Ic-voet 8 pins (vork-contact)	1.0000	st
10600395	Ic-voet 14 pins (vork-contact)	6.0000	st
10600396	Ic-voet 16 pins (vork-contact)	4.0000	st
10600398	Ic-voet 20 pins (vork-contact)	10.0000	st
10600401	Ic-voet 28 pins (vork-contact)	2.0000	st
10600403	Ic-voet 68 pins (PLCC Socket)	1.0000	st
10300203	Instelpot 25-turn 100k H T93YB	8.0000	st
10250396	Kristal 12.0000 Mhz	1.0000	st
10250386	Led 3mm green round	1.0000	st
10250387	Led 3mm red round	1.0000	st
10201199	Print Dynamics /B	1.0000	st
10550001	Relais D1C121000 1xchnge minid	8.0000	st
10250332	Transistor BC-337/25 tape(npn)	8.0000	st
10350517	Weerstand 0E 5% 1/4W	3.0000	st
10350765	Weerstand 1M0 5% 1/4W	1.0000	st
10350729	Weerstand 1k0 5% 1/4W	8.0000	st
10350768	Weerstand 2M2 5% 1/4W	8.0000	st
10350905	Weerstand 2k67 1% 1/4W	16.0000	st
10350734	Weerstand 2k7 5% 1/4W	8.0000	st
10350704	Weerstand 4E7 5% 1/4W	3.0000	st
10350741	Weerstand 10k 5% 1/4W	8.0000	st
10350848	Weerstand 10k0 1% 1/4W	8.0000	st
10350856	Weerstand 20k0 1% 1/4W	16.0000	st
10350859	Weerstand 24k3 1% 1/4W	18.0000	st
10350883	Weerstand 44k2 1% 1/4W	8.0000	st
10350713	Weerstand 47E 5% 1/4W	8.0000	st
10350714	Weerstand 56E 5% 1/4W	8.0000	st
10350717	Weerstand 100E 5% 1/4W	1.0000	st
10350753	Weerstand 100K 5% 1/4W	18.0000	st
10350719	Weerstand 150E 5% 1/4W	8.0000	st
10350759	Weerstand 330k 5% 1/4W	8.0000	st
10350761	Weerstand 470k 5% 1/4W	8.0000	st
10350726	Weerstand 560E 5% 1/4W	10.0000	st
10350031	Weerstand array 8x 10k 9p SIL	2.0000	st
10650159	Bandkabel 34p (R 1.27)	250.0000	cm
10600167	Conn. assembly 4p-52cm tube	8.0000	st
10600163	Connector 2p(2.54)	8.0000	st
10600132	Connector bandkabel female 34p	2.0000	st
10700610	Moer M 3	4.0000	st
20851221	Print bestukt Dynamics	1.0000	st
10700787	Tapitie M3x6 bolkoppozidr/zwrt	4.0000	st
10700622	Zeskant tap M3x 6mm metaal	4.0000	st

60888851 VCA fader ALPS 60mm (8x)

Articlecode	Description	Quantity	Unit
10600173	Conn: 3p wrd:402-03*20cm 2.5T	8.0000	st
10300960	Fader ALPS-K 60mm mono linear	8.0000	st
10450082	Knop Fader SiFam white (1.2x8)	8.0000	st
10700786	Tapitie M3x5 verzkop/pozidr/zw	16.0000	st

60888852 Motor fader ALPS 60mm (8x)

Articlecode	Description	Quantity	Unit
10400213	Condensator ker 10p R2.5	16.0000	st
10400217	Condensator ker 22p R2.5	8.0000	st
10400225	Condensator ker 100p R2.5	8.0000	st
10401241	Condensator ker 100nF/50V R5 T	48.0000	st
10401246	Condensator poly 1n0 R5.0	8.0000	st
10401268	Condensator poly 1uF R5.0	8.0000	st
10401253	Condensator poly 10n R5.0	8.0000	st
10401261	Condensator poly 100n R5.0	8.0000	st
10400269	Condensator poly 220n R5.0	24.0000	st
10250342	Diode 1N4148 (signaal)	40.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	11.0000	st
10400281	Elco 4.7uF / 50V radiaal R5.0	8.0000	st
10250017	Fet J175 (P-channel switch)	8.0000	st

10600509	Header 20P Straight	1.0000	st
10600510	Header 2p Lock straight(R 2.54)	8.0000	st
10600512	Header 4P lock straight(R2.54)	8.0000	st
10600456	Header haaks 20p (raster 2.54)	1.0000	st
10250025	Ic 4051B (8 chann multiplexer)	2.0000	st
10250046	Ic 74HC259 8 bit adr latch	1.0000	st
10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st
10250059	Ic CD 4069 6 inv. buffer	8.0000	st
10250058	Ic L272 MB Dual low power Op.	8.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	8.0000	st
10600395	Ic-voet 14 pins (vork-contact)	16.0000	st
10600396	Ic-voet 16 pins (vork-contact)	3.0000	st
10300148	Instelpot 1-turn 250k hor (V)	6.0000	st
10300204	Instelpot 25-turn 200k H T93YB	2.0000	st
10350004	NTC Weerstand WTF4K7	8.0000	st
10201201	Print Motor fader 1D	1.0000	st
10250332	Transistor BC-337/25 tape(npn)	8.0000	st
10350701	Weerstand 1E0 5% 1/4W	24.0000	st
10350765	Weerstand 1M0 5% 1/4W	24.0000	st
10350729	Weerstand 1k0 5% 1/4W	8.0000	st
10350703	Weerstand 2E2 5% 1/4W	2.0000	st
10350835	Weerstand 2k00 1% 1/4W	16.0000	st
10350733	Weerstand 2k2 5% 1/4W	8.0000	st
10350737	Weerstand 4k7 5% 1/4W	16.0000	st
10350741	Weerstand 10k 5% 1/4W	16.0000	st
10350848	Weerstand 10k0 1% 1/4W	16.0000	st
10350744	Weerstand 18k 5% 1/4W	8.0000	st
10350856	Weerstand 20k0 1% 1/4W	48.0000	st
10350858	Weerstand 22k1 1% 1/4W	8.0000	st
10350747	Weerstand 33k 5% 1/4W	8.0000	st
10350748	Weerstand 39k 5% 1/4W	8.0000	st
10350749	Weerstand 47k 5% 1/4W	17.0000	st
10350866	Weerstand 47k5 1% 1/4W	16.0000	st
10350753	Weerstand 100K 5% 1/4W	8.0000	st
10350763	Weerstand 680k 5% 1/4W	16.0000	st
10250340	Zenerdiode 2V4 / 400mW	16.0000	st
10650448	Bandkabel 20p (R 1.27)	100.0000	cm
10600175	Conn: 5p wired: 402-05/50cmsh	8.0000	st
10600470	Connector bandkabel female 20p	4.0000	st
10300083	Fader ALPS-MOTOR RS60N12M9	8.0000	st
10600012	Kabelschoen rondstift blauw	2.0000	st
10450081	Knop Fader SiFam chr conductiv	8.0000	st
10650374	Montagedraad 0.4 mm2 (geel)	80.0000	cm
10650375	Montagedraad 0.4 mm2 (groen)	80.0000	cm
20851170	Print bestukt Motorfader	1.0000	st
10700786	Tapitie M3x5 verzkop/pozidr/zw	16.0000	st
10700787	Tapitie M3x6 bolkoppozidr/zwrt	4.0000	st

60888853 VCA fader ALPS 100mm (8x)

Articlecode	Description	Quantity	Unit
10600171	Conn: 3p wired: 1=blck/grn/red	8.0000	st
10300094	Fader ALPS-Klin 100mm 10KB 9.4	8.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	56.0000	cm
10450082	Knop Fader SiFam white (1.2x8)	8.0000	st
10700786	Tapitie M3x5 verzkop/pozidr/zw	16.0000	st

60888854 Motor fader ALPS 100mm (8x)

Articlecode	Description	Quantity	Unit
10400213	Condensator ker 10p R2.5	16.0000	st
10400217	Condensator ker 22p R2.5	8.0000	st
10400225	Condensator ker 100p R2.5	8.0000	st
10401241	Condensator ker 100nF/50V R5 T	48.0000	st
10401246	Condensator poly 1n0 R5.0	8.0000	st
10401268	Condensator poly 1uF R5.0	8.0000	st
10401253	Condensator poly 10n R5.0	8.0000	st
10401261	Condensator poly 100n R5.0	8.0000	st
10400269	Condensator poly 220n R5.0	24.0000	st
10250342	Diode 1N4148 (signaal)	40.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	11.0000	st
10400281	Elco 4.7uF / 50V radiaal R5.0	8.0000	st
10250017	Fet J175 (P-channel switch)	8.0000	st
10600509	Header 20P Straight	1.0000	st
10600510	Header 2p Lock straight(R 2.54)	8.0000	st
10600512	Header 4P lock straight(R2.54)	8.0000	st
10600456	Header haaks 20p (raster 2.54)	1.0000	st
10250025	Ic 4051B (8 chann multiplexer)	2.0000	st
10250046	Ic 74HC259 8 bit adr latch	1.0000	st
10250291	Ic 7805 TO220 SGS (volt.reg)	1.0000	st
10250059	Ic CD 4069 6 inv. buffer	8.0000	st
10250058	Ic L272 MB Dual low power Op.	8.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	8.0000	st
10600395	Ic-voet 14 pins (vork-contact)	16.0000	st
10600396	Ic-voet 16 pins (vork-contact)	3.0000	st
10300148	Instelpot 1-turn 250k hor (V)	6.0000	st
10300204	Instelpot 25-turn 200k H T93YB	2.0000	st

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60888854 Motor fader ALPS 100mm (8x)			
Articlecode	Description	Quantity	Unit
10350004	NTC Weerstand WTF4K7	8.0000	st
10201201	Print Motor fader 1D	1.0000	st
10250332	Transistor BC-337/25 tape(npn)	8.0000	st
10350701	Weerstand 1E0 5% 1/4W	24.0000	st
10350765	Weerstand 1M0 5% 1/4W	24.0000	st
10350729	Weerstand 1k0 5% 1/4W	8.0000	st
10350703	Weerstand 2E2 5% 1/4W	2.0000	st
10350835	Weerstand 2k00 1% 1/4W	16.0000	st
10350733	Weerstand 2k2 5% 1/4W	8.0000	st
10350737	Weerstand 4k7 5% 1/4W	16.0000	st
10350741	Weerstand 10k 5% 1/4W	16.0000	st
10350848	Weerstand 10k0 1% 1/4W	16.0000	st
10350744	Weerstand 18k 5% 1/4W	8.0000	st
10350856	Weerstand 20k0 1% 1/4W	48.0000	st
10350858	Weerstand 22k1 1% 1/4W	8.0000	st
10350747	Weerstand 33k 5% 1/4W	8.0000	st
10350748	Weerstand 39k 5% 1/4W	8.0000	st
10350749	Weerstand 47k 5% 1/4W	17.0000	st
10350866	Weerstand 47k5 1% 1/4W	16.0000	st
10350753	Weerstand 100K 5% 1/4W	8.0000	st
10350763	Weerstand 680k 5% 1/4W	16.0000	st
10250340	Zenerdiode 2V4 / 400mW	16.0000	st
10700652	Afstandshdr pl zeskant+tap15mm	8.0000	st
10650448	Bandkabel 20p (R 1.27)	100.0000	cm
10600175	Conn: 5p wired: 402-05/50cmsh	8.0000	st
10600163	Connector 2p(2.54)	8.0000	st
10600470	Connector bandkabel female 20p	4.0000	st
10300084	Fader ALPS-MOTOR RSA0N12M3 100	8.0000	st
10600012	Kabelschoen rondstift blauw	2.0000	st
10450081	Knop Fader SiFam chr conductiv	8.0000	st
10650374	Montagedraad 0.4 mm2 (geel)	80.0000	cm
10650375	Montagedraad 0.4 mm2 (groen)	80.0000	cm
20851170	Print bestukt Motorfader	1.0000	st
10700786	Tapitie M3x5 verzkop/pozidrt/zw	16.0000	st
10700622	Zeskant tap M3x 6mm metaal	4.0000	st

60889528 Voeding 4HE 600VA + automation			
Articlecode	Description	Quantity	Unit
10350517	Weerstand 0E 5% 1/4W	6.0000	st
10250345	Brugcel B80C1000 (rond)	2.0000	st
10401241	Condensator ker 100nF/50V R5 T	10.0000	st
10401246	Condensator poly 1n0 R5.0	4.0000	st
10250343	Diode 1N4004 (rectifier)	8.0000	st
10250342	Diode 1N4148(signaal)	1.0000	st
10400284	Elco 10uF / 40V radiaal R5.0	1.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	10.0000	st
10400302	Elco 100uF / 63V radiaal R5.0	5.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	2.0000	st
10400293	Elco 220uF / 63V radiaal R5.0	6.0000	st
10400304	Elco 2200uF / 35V radiaal R7.5	2.0000	st
10400299	Elco 4700uF/40V axiaal	4.0000	st
10600510	Header 2p Lock straight(R 2.54)	3.0000	st
10600512	Header 4P lock straight(R2.54)	1.0000	st
10600151	Header recht 1p opsteekkontkt	28.0000	st
10250313	Ic 723 dil-14 (volt.reg.)	4.0000	st
10250318	Ic 7812 TO220 SGS (volt.reg)	2.0000	st
10250324	Ic 7824 TO220 SGS (volt.reg)	2.0000	st
10250020	Ic TL-783 TO220 (high voltreg)	1.0000	st
10600395	Ic-voet 14 pins (vork-contact)	2.0000	st
10300201	Instelpot 25-turn 1k H T93YB	4.0000	st
10720662	Koelprof KL-169/SW TO-220	1.0000	st
10200781	Print PS 48V-a	1.0000	st
10201166	Print PS-dig 2x12V/a 4HEautom	1.0000	st
10200780	Print PSL-1A 600VA/1200VA	1.0000	st
10200779	Print PSR-1A 600VA/1200VA	1.0000	st
10550006	Relais DPDT G2R-2 12V (PCB)	1.0000	st
10600414	Shunt 2p (mini-jumper)	2.0000	st
10250332	Transistor BC-337/25 tape(npn)	3.0000	st
10250334	Transistor BD-237 (npn)	4.0000	st
10250426	Transistor TIP3055 TO-220(npn)	4.0000	st
10350786	Weerstand 0.33E 2W	4.0000	st
10350517	Weerstand 0E 5% 1/4W	4.0000	st
10350729	Weerstand 1k0 5% 1/4W	21.0000	st
10350730	Weerstand 1k2 5% 1/4W	2.0000	st
10350731	Weerstand 1k5 5% 1/4W	2.0000	st
10350833	Weerstand 1k50 1% 1/4W	2.0000	st
10350733	Weerstand 2k2 5% 1/4W	2.0000	st
10350734	Weerstand 2k7 5% 1/4W	5.0000	st
10350738	Weerstand 5k6 5% 1/4W	2.0000	st
10350740	Weerstand 8k2 5% 1/4W	4.0000	st
10350741	Weerstand 10k 5% 1/4W	1.0000	st
10350742	Weerstand 12k 5% 1/4W	2.0000	st
10250340	Zenerdiode 2V4 / 400mW	2.0000	st
10250362	Zenerdiode 4V7 / 400mW	2.0000	st
10250353	Zenerdiode 12V0 / 1W	1.0000	st
10700671	Bout M 4 x 10 inbus verz zwart	4.0000	st
10700907	Bout M 5 x 20 zwart	16.0000	st

10700693	Bout M 8 x 90 tapbout zwart	1.0000	st
10250315	Brugcel 010-125-25A (vierkant)	4.0000	st
10600160	Conn 2p wired 1=black 2=green	2.0000	st
10600528	Connector plug speakon 8p.zw.	1.0000	st
10800010	Doos Voeding 4HE	1.0000	st
10400305	Elco 33mF / 63V schroefbeker	2.0000	st
10500962	Isolatiebus TO-3NYLON	20.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	70.0000	cm
10500005	Isolatiekous 5.0mm rond (grys)	200.0000	cm
10500665	Isolatieplaat TOP/3 (TIP-3055)	22.0000	st
10650495	Kabel 7 aderig 2.5 mm2	600.0000	cm
10600007	Kabelschoen + boutgat M3 rood	1.0000	st
10600006	Kabelschoen + boutgat M4 blauw	8.0000	st
10700625	Kartelring M 3 (buitenvertan)	23.0000	st
10700422	Kartelring M 4 (buitenvertan)	4.0000	st
10700913	Kartelring M 8 (buitenvertan)	2.0000	st
10150010	Kast Voeding 19"D 4HE	1.0000	st
10700005	Kastvoet (rubber) zwart	4.0000	st
10720001	Koelpasta Alutronic	2.0000	g
10720667	Koelprof KL-271-150/SW 4HE	2.0000	st
10500682	Krimpous 6 mm (rond)	50.0000	cm
10500684	Krimpous 38 mm RNF100-1.5" zw	5.0000	cm
10250387	Led 3mm red round	3.0000	st
10600701	Mains inlet SKT MS3 + FR MS3	1.0000	st
10700610	Moer M 3	3.0000	st
10700692	Moer M 4	4.0000	st
10700686	Moer M 8	1.0000	st
10700909	Moer M5	4.0000	st
10650383	Montagedraad 1.5mm2 (blauw)	60.0000	cm
10650384	Montagedraad 1.5mm2 (grijs)	65.0000	cm
10650388	Montagedraad 1.5mm2 (groen)	13.0000	cm
10650385	Montagedraad 1.5mm2 (rood)	90.0000	cm
10650490	Montagedraad 2.5 mm2 (blauw)	82.0000	cm
10650101	Montagedraad 2.5 mm2 (geel)	75.0000	cm
10650100	Montagedraad 2.5 mm2 (rood)	170.0000	cm
10350003	NTC WTT-5E (Power supply)	2.0000	st
10600498	Netsnoer 3 aders euroconnector	1.0000	st
10700690	Platstaf 25 x 10 x 10mm	8.0000	st
10700611	Popnagel 3.0 x 6.5 blank	8.0000	st
20850121	Print bestukt PS 48V	1.0000	st
20851166	Print bestukt PS-dig(2x12V4HE)	1.0000	st
20850120	Print bestukt PSL 600VA/1200VA	1.0000	st
20850119	Print bestukt PSR 600VA/1200VA	1.0000	st
10950883	Ringk1200VA4x21/2x16(8.5A01x48	1.0000	st
10700628	Rozetring M6 6,4x12,7x3,4	8.0000	st
10550003	Schakelaar Wip 220V + neonlamp	1.0000	st
10700789	Tapitie M 3 x 15 zwart	4.0000	st
10700616	Tapitie M3x10 bolkoppozidrt/zw.	20.0000	st
10700787	Tapitie M3x6 bolkoppozidrt/zwrt	12.0000	st
10600181	Terminal Block 4 way 56 melami	1.0000	st
10250426	Transistor TIP3055 TO-220(npn)	20.0000	st
10700645	Trekontlasting 11-18mm +moer	1.0000	st
10700680	Tywrap lang 150mm blank	4.0000	st
10350786	Weerstand 0.33E 2W	16.0000	st
10990651	Zekering 6.3 A slow 5 x 20mm	1.0000	st
10700622	Zeskant tap M3x 6mm metaal	16.0000	st

60889529 Voeding 4HE 1200VA +automation			
Articlecode	Description	Quantity	Unit
10350517	Weerstand 0E 5% 1/4W	6.0000	st
10250345	Brugcel B80C1000 (rond)	2.0000	st
10401241	Condensator ker 100nF/50V R5 T	10.0000	st
10401246	Condensator poly 1n0 R5.0	4.0000	st
10250343	Diode 1N4004 (rectifier)	8.0000	st
10250342	Diode 1N4148(signaal)	1.0000	st
10400284	Elco 10uF / 40V radiaal R5.0	1.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	10.0000	st
10400302	Elco 100uF / 63V radiaal R5.0	5.0000	st
10400290	Elco 220uF / 25V radiaal R5.0	2.0000	st
10400293	Elco 220uF / 63V radiaal R5.0	6.0000	st
10400304	Elco 2200uF / 35V radiaal R7.5	2.0000	st
10400299	Elco 4700uF/40V axiaal	4.0000	st
10600510	Header 2p Lock straight(R 2.54)	3.0000	st
10600512	Header 4P lock straight(R2.54)	1.0000	st
10600151	Header recht 1p opsteekkontkt	28.0000	st
10250313	Ic 723 dil-14 (volt.reg.)	4.0000	st
10250318	Ic 7812 TO220 SGS (volt.reg)	2.0000	st
10250324	Ic 7824 TO220 SGS (volt.reg)	2.0000	st
10250020	Ic TL-783 TO220 (high voltreg)	1.0000	st
10600395	Ic-voet 14 pins (vork-contact)	2.0000	st
10300201	Instelpot 25-turn 1k H T93YB	4.0000	st

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60889529 Voeding 4HE 1200VA +automatiom				10700622 Zeskant tap M3x 6mm metaal 16.0000 st			
Articlecode	Description	Quantity	Unit	60889534 Voeding 2HE 19" MotorFader 12V			
10720662	Koelprof KL-169/SW TO-220	1.0000	st	10401241	Condensator ker 100nF/50V R5 T	3.0000	st
10200781	Print PS 48V-a	1.0000	st	10401246	Condensator poly 1n0 R5.0	1.0000	st
10201166	Print PS-dig 2x12V/a 4HEautom	1.0000	st	10250343	Diode 1N4004 (rectifier)	1.0000	st
10200780	Print PSL-1A 600VA/1200VA	1.0000	st	10400292	Elco 100uF / 25V radiaal R5.0	3.0000	st
10200779	Print PSR-1A 600VA/1200VA	1.0000	st	10400290	Elco 220uF / 25V radiaal R5.0	1.0000	st
10550006	Relais DPDT G2R-2 12V (PCB)	1.0000	st	10400299	Elco 4700uF/40V axiaal	6.0000	st
10600414	Shunt 2p (mini-jumper)	2.0000	st	10250313	Ic 723 dil-14 (volt.reg.)	1.0000	st
10250332	Transistor BC-337/25 tape(npn)	3.0000	st	10250318	Ic 7812 TO220 SGS (volt.reg)	1.0000	st
10250334	Transistor BD-237 (nnp)	4.0000	st	10300201	Instelpot 25-turn 1k H T93YB	1.0000	st
10250426	Transistor TIP3055 TO-220(npn)	4.0000	st	10720663	Koelprof KL-207/38,1/SW 207180	1.0000	st
10350786	Weerstand 0.33E 2W	4.0000	st	10201167	Print PS Motorfader/c(TIP-2HE)	1.0000	st
10350517	Weerstand 0E 5% 1/4W	4.0000	st	10700293	Taptime M2.5x6 bolk/pozidrive	2.0000	st
10350729	Weerstand 1k0 5% 1/4W	21.0000	st	10250334	Transistor BD-237 (nnp)	1.0000	st
10350730	Weerstand 1k2 5% 1/4W	2.0000	st	10350785	Weerstand 0.15E 5W	8.0000	st
10350731	Weerstand 1k5 5% 1/4W	2.0000	st	10350517	Weerstand 0E 5% 1/4W	5.0000	st
10350833	Weerstand 1k50 1% 1/4W	2.0000	st	10350729	Weerstand 1k0 5% 1/4W	4.0000	st
10350733	Weerstand 2k2 5% 1/4W	2.0000	st	10350730	Weerstand 1k2 5% 1/4W	1.0000	st
10350734	Weerstand 2k7 5% 1/4W	5.0000	st	10350731	Weerstand 1k5 5% 1/4W	1.0000	st
10350738	Weerstand 5k6 5% 1/4W	2.0000	st	10350734	Weerstand 2k7 5% 1/4W	1.0000	st
10350740	Weerstand 8k2 5% 1/4W	4.0000	st	10250362	Zenerdiode 4V7 / 400mW	1.0000	st
10350741	Weerstand 10k 5% 1/4W	1.0000	st	10700654	Afstandshouder zeskant+tap 6mm	3.0000	st
10350742	Weerstand 12k 5% 1/4W	2.0000	st	10700928	Bout M 3 x 16 rvs	4.0000	st
10250340	Zenerdiode 2V4 / 400mW	2.0000	st	10700905	Bout M 4 x 10 zwart	20.0000	st
10250362	Zenerdiode 4V7 / 400mW	2.0000	st	10700671	Bout M 4 x 10 inbus verz zwart	4.0000	st
10250353	Zenerdiode 12V0 / 1W	1.0000	st	10700295	Bout M 6 x 70 tapbout zwart	1.0000	st
10700778	Bout M 3 x 16 zwart	4.0000	st	10250315	Brugcel 010-125-25A (vierkant)	2.0000	st
10700905	Bout M 4 x 10 zwart	8.0000	st	10600525	Connector chass speakon 4p.zw.	1.0000	st
10700671	Bout M 4 x 10 inbus verz zwart	4.0000	st	10600526	Connector plug speakon 4p.zw.	1.0000	st
10700907	Bout M 5 x 20 zwart	16.0000	st	10500962	Isolatiebus TO-3NYLON	4.0000	st
10700693	Bout M 8 x 90 tapbout zwart	1.0000	st	10500658	Isolatieplaat Avalon(chan) PVC	1.0000	st
10250315	Brugcel 010-125-25A (vierkant)	4.0000	st	10500665	Isolatieplaat TOP/3 (TIP-3055)	4.0000	st
10401241	Condensator ker 100nF/50V R5 T	2.0000	st	10500705	Isolatieplaat midi mute PVC	1.0000	st
10600160	Conn 2p wired 1=black 2=green	2.0000	st	10650496	Kabel 4 x 2.50 mm2 (zwart)	600.0000	cm
10600528	Connector plug speakon 8p.zw.	1.0000	st	10600016	Kabelschoen + boutgat M4 rood	1.0000	st
10800010	Doos Voeding 4HE	1.0000	st	10700625	Kartelring M 3 (buitenvertan)	8.0000	st
10400305	Elco 33mF / 63V schroefbeker	2.0000	st	10700422	Kartelring M 4 (buitenvertan)	3.0000	st
10400292	Elco 100uF / 25V radiaal R5.0	2.0000	st	10700912	Kartelring M 6 (buitenvertan)	2.0000	st
10500962	Isolatiebus TO-3NYLON	20.0000	st	10700910	Kartelring M5 (buitenvertand)	2.0000	st
10500004	Isolatiekous 4.0mm rond (grys)	70.0000	cm	10150927	Kast Voeding 2HE/A (TIP3055)	1.0000	st
10500005	Isolatiekous 5.0mm rond (grys)	200.0000	cm	10720664	Koelblok KL-135 75mm TO-3 zwrt	4.0000	st
10500665	Isolatieplaat TOP/3 (TIP-3055)	22.0000	st	10500682	Krimpous 6 mm (rond)	18.0000	cm
10650495	Kabel 7 aderig 2.5 mm2	600.0000	cm	10500684	Krimpous 38 mm RNF100-1.5" zw	38.0000	cm
10600007	Kabelschoen + boutgat M3 rood	1.0000	st	10600701	Mains inlet SKT MS3 + FR MS3	1.0000	st
10600006	Kabelschoen + boutgat M4 blauw	10.0000	st	10700610	Moer M 3	8.0000	st
10700625	Kartelring M 3 (buitenvertan)	31.0000	st	10700692	Moer M 4	13.0000	st
10700422	Kartelring M 4 (buitenvertan)	4.0000	st	10700686	Moer M 8	1.0000	st
10700913	Kartelring M 8 (buitenvertan)	2.0000	st	10700909	Moer M5	2.0000	st
10150010	Kast Voeding 19"/D 4HE	1.0000	st	10650385	Montagedraad 1.5mm2 (rood)	60.0000	cm
10700005	Kastvoet (rubber) zwart	4.0000	st	10650490	Montagedraad 2.5 mm2 (blauw)	30.0000	cm
10720001	Koelpasta Alutronic	2.0000	g	10650103	Montagedraad 2.5 mm2 (grijs)	25.0000	cm
10720667	Koelprof KL-271-150/SW 4HE	2.0000	st	10650100	Montagedraad 2.5 mm2 (rood)	50.0000	cm
10500682	Krimpous 6 mm (rond)	50.0000	cm	10650105	Montagedraad 2.5 mm2 geel/grn	12.0000	cm
10500683	Krimpous 3.2mm RNF-100 1/8"zw	25.0000	cm	10600498	Netsnoer 3 aders euroconnector	1.0000	st
10500684	Krimpous 38 mm RNF100-1.5" zw	5.0000	cm	10700656	Plakvoet bouton zwart (10x10)	4.0000	st
10250387	Led 3mm red round	3.0000	st	10700690	Platstaf 25 x 10 x 10mm	2.0000	st
10600701	Mains inlet SKT MS3 + FR MS3	1.0000	st	10700611	Popnagel 3.0 x 6.5 blank	4.0000	st
10700610	Moer M 3	15.0000	st	20851167	Print bestukt PS Motorfader	1.0000	st
10700692	Moer M 4	20.0000	st	10950589	Ringk 160VA/2x15v/1x8v-5A	1.0000	st
10700686	Moer M 8	1.0000	st	10550003	Schakelaar Wip 220V + neonlamp	1.0000	st
10700909	Moer M5	4.0000	st	10700616	Taptime M3x10 bolkoppozidr/zw.	2.0000	st
10650383	Montagedraad 1.5mm2 (blauw)	60.0000	cm	10700787	Taptime M3x6 bolkoppozidr/zwr	1.0000	st
10650388	Montagedraad 1.5mm2 (groen)	13.0000	cm	10700790	Taptime M3x6 verzkop/pozidr/zw	2.0000	st
10650385	Montagedraad 1.5mm2 (rood)	90.0000	cm	10250426	Transistor TIP3055 TO-220(npn)	4.0000	st
10650490	Montagedraad 2.5 mm2 (blauw)	82.0000	cm	10700658	Trekontlasting 19m rond recht	1.0000	st
10650101	Montagedraad 2.5 mm2 (geel)	75.0000	cm	10990653	Zekering 3.15 A slow 5 x 20mm	1.0000	st
10650100	Montagedraad 2.5 mm2 (rood)	170.0000	cm				
10350003	NTC WTT-5E (Power supply)	2.0000	st	60886030 Merlin 25 segments ledbar mono			
10600498	Netsnoer 3 aders euroconnector	1.0000	st	Articlecode	Description	Quantity	Unit
10700690	Platstaf 25 x 10 x 10mm	8.0000	st	10400236	Condensator ker 1000p R2.5	1.0000	st
10700611	Popnagel 3.0 x 6.5 blank	8.0000	st	10401241	Condensator ker 100nF/50V R5 T	3.0000	st
10200060	Print Ventilator	2.0000	st	10401268	Condensator poly 1uF R5.0	1.0000	st
20850121	Print bestukt PS 48V	1.0000	st	10250342	Diode 1N4148(signaal)	4.0000	st
20851166	Print bestukt PS-dig(2x12V4HE)	1.0000	st	10400287	Elco 47uF / 25V radiaal R5.0	4.0000	st
20850120	Print bestukt PSL 600VA/1200VA	1.0000	st	10600452	Header 10p haaks (raster 2.54)	1.0000	st
20850119	Print bestukt PSR 600VA/1200VA	1.0000	st	10600512	Header 4P lock straight(R2.54)	1.0000	st
10950883	Ringk1200VA4x21/2x16(8.5A01x48	1.0000	st	10250325	Ic 78L12 TO92 SGS (volt.reg)	1.0000	st
10700628	Rozetring M6 6,4x12,7x3,4	8.0000	st	10250316	Ic LM-339(comparator)	6.0000	st
10550003	Schakelaar Wip 220V + neonlamp	1.0000	st	10250305	Ic TL-074 CN TI (quad-opamp)	1.0000	st
10700789	Taptime M 3 x 15 zwart	8.0000	st	10600395	Ic-voet 14 pins (vork-contact)	7.0000	st
10700616	Taptime M3x10 bolkoppozidr/zw.	28.0000	st				
10700787	Taptime M3x6 bolkoppozidr/zwr	12.0000	st				
10600181	Terminal Block 4 way 56 melami	1.0000	st				
10250426	Transistor TIP3055 TO-220(npn)	20.0000	st				
10700645	Trekontlasting 11-18mm +moer	1.0000	st				
10700680	Tywrap lang 150mm blank	4.0000	st				
10720002	Ventilator 8x8 cm / 12V dc	2.0000	st				
10350785	Weerstand 0.15E 5W	16.0000	st				
10350723	Weerstand 330E 5% 1/4W	4.0000	st				
10990651	Zekering 6.3 A slow 5 x 20mm	1.0000	st				

D&R Electronica Weesp BV (CINEMIX PARTLIST) DATE: 24-04-1998

60886030 Merlin 25 segments ledbar mono

Articlecode	Description	Quantity	Unit
10300166	Instelpot 10-turn 22k (T18)	1.0000	st
10200596	Print Hi-Res ledbar 25/F	1.0000	st
10250333	Transistor BC-327/25 (pnp)	2.0000	st
10350830	Weerstand 1k21 1% 1/4W	1.0000	st
10350579	Weerstand 1k65 1% 1/4W	1.0000	st
10350732	Weerstand 1k8 5% 1/4W	2.0000	st
10350835	Weerstand 2k00 1% 1/4W	1.0000	st
10350733	Weerstand 2k2 5% 1/4W	1.0000	st
10350838	Weerstand 2k37 1% 1/4W	1.0000	st
10350734	Weerstand 2k7 5% 1/4W	1.0000	st
10350704	Weerstand 4E7 5% 1/4W	2.0000	st
10350737	Weerstand 4k7 5% 1/4W	2.0000	st
10350741	Weerstand 10k 5% 1/4W	1.0000	st
10350908	Weerstand 15E4 1% 1/4W	1.0000	st
10350909	Weerstand 21E5 1% 1/4W	1.0000	st
10350808	Weerstand 33E2 1% 1/4W	2.0000	st
10350910	Weerstand 38E3 1% 1/4W	1.0000	st
10350807	Weerstand 47E5 1% 1/4W	2.0000	st
10350749	Weerstand 47k 5% 1/4W	1.0000	st
10350911	Weerstand 64E9 1% 1/4W	1.0000	st
10350809	Weerstand 88E7 1% 1/4W	2.0000	st
10350717	Weerstand 100E 5% 1/4W	2.0000	st
10350753	Weerstand 100K 5% 1/4W	1.0000	st
10350854	Weerstand 115E 1% 1/4W	1.0000	st
10350811	Weerstand 162E 1% 1/4W	1.0000	st
10350812	Weerstand 205E 1% 1/4W	1.0000	st
10350885	Weerstand 237E 1% 1/4W	1.0000	st
10350702	Weerstand 309E 1% 1/4W	1.0000	st
10350818	Weerstand 392E 1% 1/4W	1.0000	st
10350898	Weerstand 499E 1% 1/4W	1.0000	st
10350823	Weerstand 619E 1% 1/4W	1.0000	st
10350825	Weerstand 768E 1% 1/4W	1.0000	st
10350828	Weerstand 976E 1% 1/4W	1.0000	st
10250340	Zenerdiode 2V4 / 400mW	1.0000	st
10650446	Bandkabel 10p (R 1.27)	40.0000	cm
10600434	Connector bandkabel female 10p	2.0000	st
10100441	Front Merlin 18C ledbar 25 seg	1.0000	st
10250393	Led 5x2mm ORANGE 1"lead	7.0000	st
10250391	Led 5x2mm green (BRIGHT)	15.0000	st
10250392	Led 5x2mm red (BRIGHT)	3.0000	st
10700690	Platstaf 25 x 10 x 10mm	2.0000	st
10700611	Popnagel 3.0 x 6.5 blank	4.0000	st
20850441	Print bestukt Axion-18(25sglb)	1.0000	st
10700787	Taptite M3x6 bolkoppozidr/zwr	2.0000	st
10350898	Weerstand 499E 1% 1/4W	2.0000	st
10350823	Weerstand 619E 1% 1/4W	2.0000	st
10350825	Weerstand 768E 1% 1/4W	2.0000	st
10350828	Weerstand 976E 1% 1/4W	2.0000	st
10250340	Zenerdiode 2V4 / 400mW	2.0000	st
10650446	Bandkabel 10p (R 1.27)	80.0000	cm
10600434	Connector bandkabel female 10p	4.0000	st
10100442	Front Axion-19a (st-ldbr 25sg)	1.0000	st
10250393	Led 5x2mm ORANGE 1"lead	14.0000	st
10250391	Led 5x2mm green (BRIGHT)	30.0000	st
10250392	Led 5x2mm red (BRIGHT)	6.0000	st
10700690	Platstaf 25 x 10 x 10mm	4.0000	st
10700611	Popnagel 3.0 x 6.5 blank	8.0000	st
20850441	Print bestukt Axion-18(25sglb)	2.0000	st
10700787	Taptite M3x6 bolkoppozidr/zwr	4.0000	st

60886032 Merlin 25 segments ledb.stereo

Articlecode	Description	Quantity	Unit
10400236	Condensator ker 1000p R2.5	2.0000	st
10401241	Condensator ker 100nF/50V R5 T	6.0000	st
10401268	Condensator poly 1uF R5.0	2.0000	st
10250342	Diode 1N4148(signaal)	8.0000	st
10400287	Elco 47uF / 25V radiaal R5.0	8.0000	st
10600452	Header 10p haaks (raster 2.54)	2.0000	st
10600512	Header 4P lock straight(R2.54)	2.0000	st
10250325	Ic 78L12 TO92 SGS (volt.reg)	2.0000	st
10250316	Ic LM-339(comparator)	12.0000	st
10250305	Ic TL-074 CN TI (quad-opamp)	2.0000	st
10600395	Ic-voet 14 pins (vork-contact)	14.0000	st
10300166	Instelpot 10-turn 22k (T18)	2.0000	st
10200596	Print Hi-Res ledbar 25/F	2.0000	st
10250333	Transistor BC-327/25 (pnp)	4.0000	st
10350830	Weerstand 1k21 1% 1/4W	2.0000	st
10350579	Weerstand 1k65 1% 1/4W	2.0000	st
10350732	Weerstand 1k8 5% 1/4W	4.0000	st
10350835	Weerstand 2k00 1% 1/4W	2.0000	st
10350733	Weerstand 2k2 5% 1/4W	2.0000	st
10350838	Weerstand 2k37 1% 1/4W	2.0000	st
10350734	Weerstand 2k7 5% 1/4W	2.0000	st
10350704	Weerstand 4E7 5% 1/4W	4.0000	st
10350737	Weerstand 4k7 5% 1/4W	4.0000	st
10350741	Weerstand 10k 5% 1/4W	2.0000	st
10350908	Weerstand 15E4 1% 1/4W	2.0000	st
10350909	Weerstand 21E5 1% 1/4W	2.0000	st
10350808	Weerstand 33E2 1% 1/4W	4.0000	st
10350910	Weerstand 38E3 1% 1/4W	2.0000	st
10350807	Weerstand 47E5 1% 1/4W	4.0000	st
10350749	Weerstand 47k 5% 1/4W	2.0000	st
10350911	Weerstand 64E9 1% 1/4W	2.0000	st
10350809	Weerstand 88E7 1% 1/4W	4.0000	st
10350717	Weerstand 100E 5% 1/4W	4.0000	st
10350753	Weerstand 100K 5% 1/4W	2.0000	st
10350854	Weerstand 115E 1% 1/4W	2.0000	st
10350811	Weerstand 162E 1% 1/4W	2.0000	st
10350812	Weerstand 205E 1% 1/4W	2.0000	st
10350885	Weerstand 237E 1% 1/4W	2.0000	st
10350702	Weerstand 309E 1% 1/4W	2.0000	st
10350818	Weerstand 392E 1% 1/4W	2.0000	st

Alignment of motorfader touch sensitivity in Cinemix consoles

Good working touch sensitivity faderknobs are very well depending upon environmental conditions in the studio and the skin of its user, so good alignment is the basis for a reliable working system and needs to be performed at the best in the studio itself.

At the factory we have a different environmental condition and another humidity percentage than at your location. So factory adjustments do not always guarantee proper working touch circuitry on arrival of the console.

Guide lines for adjustment

1. Make sure you have properly grounded the console from its central ground point to a clean studio ground.
2. Now turn on the console and let it warm up for a minimum of one hour to create a realistic working environment. Adjustments performed on a “cold” console do not guarantee a stable performing of the touch electronics. This type of circuitry is very sensitive to all environment changes such as humidity of the record room as well as the skin conditions of the engineer working at console.
3. Put all channels in the “Write Mode” (Ctrl/W, as a short cut)
4. Move all faders to their top position by hand.
5. Now check if the PowerVCA screen also has repositioned the faders.
6. Now put all the faders in the “Read Mode” (Ctrl/R, as a short cut)
7. Now move all the faders down by hand.
8. Most faders will jump back to their recorded “top” position, that is correct
9. Those faders that are not jumping back to their recorded top position need to be adjusted.

Adjustment of the touch circuitry

Adjustment is performed on the motorfader cards mounted underneath the modules.

It is wise to remove all the screws that hold the modules and take out maybe module 1 and 2, so the rest of the modules could be moved to reach for the touch trimmer pots.

Trimmer pots VR1 up to VR8 are the touch trimmers.

Now turn the pot fully counter clockwise (with the fader still sitting down) until the fader moves back to its recorded (top) position.

Perform this procedure for all not optimal working faders.